

GENE	PRECURSOR-SEQUENCE	P-SEQID	GENE-SEQ	G-SEQID	FOLDED PRECURSOR	
GAM15	ACCTCTTCTGATGGAGTCG 1	TGATGGAGTC 350	TTTCT- T TC	AAG CT TC	TCTTC	
	T CTCACAA					
	TAAAAAAAGTTTATCTCTT	GTAAAAAAAGT	C GA GGAG	GTAAAAA	TTTTAT CTT TC	GA
GGT	A					
	CTCTCTCGATGGTCTCACA	TTTA				
	AAAATATTAAACCTCTTCT		G CT TCTC	TATTTT AAAATG	GAG AG	CT CCA A
	GATGGAGTCGTAAAAAAGTT		CTTCCT T --	GAA CT	GT TCTTT -	AATTATA
	TTATCTCTTCTCCTTCGAT					
	GGT					
GAM16	ACCTCTTCTGATGGAGTCG 2	TGATGGAGTC 351	TTTCT TG TC	AAG CT	TC TCTTC	
	T CTCACAA					
	TAAAAAAAGTTTATCTCTT	GTAAAAAAAGT	TC GA GAG	GTAAAAA	TTTTAT CTT TC	GA
GGT	A					
	CTCTCTCGATGGTCTCACA	TTTA				
	AAAATATTAAACCTCTTCT		AG CT TTC	TATTTT AAAATG	GAG AG	CT CCA A
	GATGGAGTCGTAAAAAAGTT		CTTCT CT TC	GAA CT	GT TCTTT -	AATTATA
	TTATCTCTTCTCCTTCGA					
	TGGT					
GAM17	ACCTCTTCTGATGGAGTCG 3	TGATGGAGTC 352	TTTCT TG TC	AAG CT	TC TCTTC	
	T CTCACAA					
	TAAAAAAAGTTTATCTCTT	GTAAAAAAAGT	TC GA GAG	GTAAAAA	TTTTAT CTT TC	GA
GGT	A					
	CTCTCTCGATGGTCTCACA	TTTA				
	AAAATATTAAACCTCTTCT		AG CT TTC	TATTTT AAAATG	GAG AG	CT CCA A
	GATGGAGTCGTAAAAAAGTT		CTTCT CT TC	GAA CT	GT TCTTT -	AATTATA
	TTATCTCTTCTCCTTCGA					
	TGGT					
GAM18	ACCTCTTCTGATGGAGTCG 4	TGATGGAGTC 353	TTTCT TG TC	AAG CT	TC TCTTC	
	T CTCACAA					
	TAAAAAAAGTTTATCTCTT	GTAAAAAAAGT	TC GA GAG	GTAAAAA	TTTTAT CTT TC	GA
GGT	A					
	CTCTCTCGATGGTCTCACA	TTTA				
	AAAATATTAAACCTCTTCT		AG CT TTC	TATTTT AAAATG	GAG AG	CT CCA A
	GATGGAGTCGTAAAAAAGTT		CTTCT CT TC	GAA CT	GT TCTTT -	AATTATA
	TTATCTCTTCTCCTTCGA					
	TGGT					
GAM19	ACCTCTTCTGATGGAGTCG 5	TGATGGAGTC 354	TTTCT TG TC	AAG CT	TC TCTTC	
	T CTCACAA					
	TAAAAAAAGTTTATCTCTT	GTAAAAAAAGT	TC GA GAG	GTAAAAA	TTTTAT CTT TC	GA
GGT	A					
	CTCTCTCGATGGTCTCACA	TTTA				
	AAAATATTAAACCTCTTCT		AG CT TTC	TATTTT AAAATG	GAG AG	CT CCA A
	GATGGAGTCGTAAAAAAGTT		CTTCT CT TC	GAA CT	GT TCTTT -	AATTATA
	TTATCTCTTCTCCTTCGA					
	TGGT					
GAM20	ACCTCTTCTGATGGAGTCG 6	TGATGGAGTC 355	TTTCT TG TC	AAG CT	TC TCTTC	
	T CTCACAA					

	TAAAAAAAGTTTATCTCTTT	GTAAAAAAAGT	TC	GA	GAG	GTAAAAA	TTTTAT	CTT	TC	GA	
GGT	A		TTTA								
	CTCTCTCGATGGTCTCACA			AG	CT	TTC	TATTTT	AAAATG	GAG	AG	
	AAAATATTAAACCTCTTCT			CTTCT	CT	TC	GAA	CT	GT	TCTTT	
	GATGGAGTCGTAAAAAAGTT			-	A						
	TTATCTCTTCTCTCTCGA										
	TGGT										
GAM21	ACCTCTTCTGATGGAGTCG	7	TGATGGAGTC	356	TTTCT	TG	TC	AAG	CT	TC	TCTTC
T	CTCACAA										
	TAAAAAAAGTTTATCTCTTT	GTAAAAAAAGT	TC	GA	GAG	GTAAAAA	TTTTAT	CTT	TC	GA	
GGT	A		TTTA								
	CTCTCTCGATGGTCTCACA			AG	CT	TTC	TATTTT	AAAATG	GAG	AG	
	AAAATATTAAACCTCTTCT			CTTCT	CT	TC	GAA	CT	GT	TCTTT	
	GATGGAGTCGTAAAAAAGTT			-	A						
	TTATCTCTTCTCTCTCGA										
	TGGT										
GAM22	ACCTCTTCTGATGGAGTCG	8	TGATGGAGTC	357	TTTCT	TG	TC	AAG	CT	TC	TCTTC
T	CTCACAA										
	TAAAAAAAGTTTATCTCTTT	GTAAAAAAAGT	TC	GA	GAG	GTAAAAA	TTTTAT	CTT	TC	GA	
GGT	A		TTTA								
	CTCTCTCGATGGTCTCACA			AG	CT	TTC	TATTTT	AAAATG	GAG	AG	
	AAAATATTAAACCTCTTCT			CTTCT	CT	TC	GAA	CT	GT	TCTTT	
	GATGGAGTCGTAAAAAAGTT			-	A						
	TTATCTCTTCTCTCTCGA										
	TGGT										
GAM23	ACCTCTTCTGATGGAGTCG	9	TGATGGAGTC	358	TTTCT	TG	TC	AAG	CT	TC	TCTTC
T	CTCACAA										
	TAAAAAAAGTTTATCTCTTT	GTAAAAAAAGT	TC	GA	GAG	GTAAAAA	TTTTAT	CTT	TC	GA	
GGT	A		TTTA								
	CTCTCTCGATGGTCTCACA			AG	CT	TTC	TATTTT	AAAATG	GAG	AG	
	AAAATATTAAACCTCTTCT			CTTCT	CT	TC	GAA	CT	GT	TCTTT	
	GATGGAGTCGTAAAAAAGTT			-	A						
	TTATCTCTTCTCTCTCGA										
	TGGT										
GAM24	ACCTCTTCTGATGGAGTCG	10	TGATGGAGTC	359	TTTCT	TG	TC	AAG	CT	TC	TCTTC
T	CTCACAA										
	TAAAAAAAGTTTATCTCTTT	GTAAAAAAAGT	TC	GA	GAG	GTAAAAA	TTTTAT	CTT	TC	GA	
GGT	A		TTTA								
	CTCTCTCGATGGTCTCACA			AG	CT	TTC	TATTTT	AAAATG	GAG	AG	
	AAAATATTAAACCTCTTCT			CTTCT	CT	TC	GAA	CT	GT	TCTTT	
	GATGGAGTCGTAAAAAAGTT			-	A						
	TTATCTCTTCTCTCTCGA										
	TGGT										
GAM25	ACCTCTTCTGATGGAGTCG	11	TGATGGAGTC	360	TTTCT	TG	TC	AAG	CT	TC	TCTTC
T	CTCACAA										
	TAAAAAAAGTTTATCTCTTT	GTAAAAAAAGT	TC	GA	GAG	GTAAAAA	TTTTAT	CTT	TC	GA	
GGT	A		TTTA								
	CTCTCTCGATGGTCTCACA			AG	CT	TTC	TATTTT	AAAATG	GAG	AG	
	AAAATATTAAACCTCTTCT			CTTCT	CT	TC	GAA	CT	GT	TCTTT	
	GATGGAGTCGTAAAAAAGTT			-	A						

TTATCTCTTCTCTCTCGA
 TGGT
 GAM26 ACCTCTTCTGATGGAGTCG 12 CGTAAAAAAG 361 TTTCT TG TC AAG CT C TTC--
 T CTCACAA
 TAAAAAAAGTTTATCTTCT GGT A
 CTCTCGATGGTCTCACAAA
 AATATTAAACCTCTTCTGA
 A
 TGGAGTCGTAAGAGTTT
 ATCTCTTCTCTCTCGATG
 GT
 GAM27 GATGGAGTCGTAAGAGTT 13 TGATGGAGTC 362 T TC AAG -- T TCCTTC T
 CTCACAA
 TTATCTCTTCTCCTTCGAT
 GTAAAAAAAGT
 GGTCTCACAAAATATTAAA
 CCTCTTCTGATGGAGTCGT
 AAAAAAGTTTATCTCTTC
 A
 GTAAAAAAAGT
 TTTA
 CT TCTC TATTTT AAAATG GAGG AG CT CCA A
 T -- GAA CT T TCTTT- - AATTATA

 GAM28 GATGGAGTCGTAAGAGTT 14 TGATGGAGTC 363 T TC AAG -- T TCCTTC T
 CTCACAA
 TTATCTCTTCTCCTTCGAT
 GTAAAAAAAGT
 GGTCTCACAAAATATTAAA
 CCTCTTCTGATGGAGTCGT
 AAAAAAGTTTATCTCTTC
 A
 GTAAAAAAAGT
 TTTA
 CT TCTC TATTTT AAAATG GAGG AG CT CCA A
 T -- GAA CT T TCTTT- - AATTATA

 GAM29 GATGGAGTCGTAAGAGTT 15 TGATGGAGTC 364 T TC AAG CT TC TCTTC T
 CTCACAA
 TTATCTCTTCTCTCTCGA
 GTAAAAAAAGT
 TGGTCTCACAAAATATTAA
 ACCTCTTCTGATGGAGTCG
 TAAAAAAAGTTTATCTCTTC
 C
 GTAAAAAAAGT
 TTTA
 CT TCTC TATTTT AAAATG GAGG AG CT CCA A
 T -- GAA CT GT TCTTT- - AATTATA

 GAM30 GATGGTCTCATAAAAAAAGT 16 ATAAAAAAAG 365 G TCATAAAA TTTTAC ATTCT-
 CTCTCTT TG
 TTTACAAAATATTTTATT
 TGA G
 TTTTACAAAAA AT GTC
 CTCTTCTCTCTTGATGGT
 CTCATAAAAAAAAGTTTACA
 AAAATATTTTATTCTCTTC
 CTCTCTTGATGGTC
 ATAT
 TG TAG TTTC TTTTATAAAAAA GAAA ACT /
 G TTTCTCTC TCTTA- CATTAA AAAAT-- CT

 GAM31 GGAGTCATAAAATATTTA 17 TAAAATATT 366 TC A T- T TCTCTTC T CTCACAA
 TTCTCTTCTCTCTCGATG
 TTATTCTCTT
 GGAG ATAAAAT TTTTAT CTCT TC GA GGT
 A

GTCTCACAAAATTTAAC	TCTC		TCTC TATTTG AAAATG GAGG AG	CT CCA	A
CTCTTCTGATGGAGTCGTA			-- A CT T TCTT-- - AATTATA		
AAAAAGTTTATCTCT					
 GAM32 TTAAACCTCTTCTGATGGA 18	TGATGGAGTC 367	CTTTCT TG TC	AAG	-- T	TCCTTC
T CTCACAA					
GTCGTAAAAAAGTTTATCT	GTAAAAAAAGT	GA GAG GTAAAAA	TTTTAT CTCT TC	GA	
GGT A					
CTTCTCCTCGATGGTCTC	TTTA				
ACAAAAATATTAAACCTCTT		CT TTC TATTTT AAAATG GAGG AG	CT CCA	A	
TCTGATGGAGTCGAAAAAA					
GTTTATCTCTTCTCCTT	CTTTTC CT TC	GAA CT T TCTT- - AATTATA			
CTCACAAAAA					
 GAM33 TTAAACCTCTTCTGATGGA 19	TGATGGAGTC 368	CTTTCT TG TC	AAG	-- T	TCCTTC
T CTCACAA					
GTCGTAAAAAAGTTTATCT	GTAAAAAAAGT	GA GAG GTAAAAA	TTTTAT CTCT TC	GA	
GGT A					
CTTCTCCTCGATGGTCTC	TTTA				
ACAAAAATATTAAACCTCTT		CT TTC TATTTT AAAATG GAGG AG	CT CCA	A	
TCTGATGGAGTCGAAAAAA					
GTTTATCTCTTCTCCTT	CTTTTC CT TC	GAA CT T TCTT- - AATTATA			
CTCACAAAAA					
 GAM34 TTTTCTTGGTACAAAATT 20	TCTTGGTAC 369	T TT CACAA	--- CA	A	
TCACACAAGTTTATACAG	AAAATTCAC	TTTTCTT GGTACAAAAA TCA	GTTT	TATA	
GACAA T					
ACAAATTCTGTCCATATAT	ACAA				
TTTAAACATTGACTTTGT		AAAAAGAA TCATGTTT AGT	CAAAA	ATAT CTGTT	
ACTAAGAAAAA	- C- TA--	TTTT AC C			
 GAM35 AGAGATAAAACTTTTACG 21	TGAGACCATC 370	-- AC -----	A A AAGA	A T	
ACTCCATCAGAAAGAGGTTT	GAAGGAGACT	AGAGATA AAACTTTTT GA	CTCC TC GA		
GGTTT ATA T					
AATATTTTGTGAGACCATC	CCAT				
GAAGGAGACTCCATCAGAAA		TTTTAT TTTGGAGAAA CT	GAGG AG CT	CCAGA	
TGT T					
GAGGTTAATATTTT	AA	GA ACCTCA A - A--	G T		
 GAM36 ATAAAAATTTTGAAAA 22	AATATTTTG 371	AAAAA	A-- GA		
CTTTTTATGAGACCATCA	TAAAACTTT	ATAAAAATTTTG	CTTTTTT	TGA C	
AAGAGAGAAAGAGAATAAAA	TTTA				
ATATTTTGT		TGTTTTATAAAAATA	GAAAGAGA ACT /		
	AGA-	GAA AC			
 GAM37 ATAAAAATTTTGAAAA 23	AATATTTTG 372	AAAAA	A-- GA		
CTTTTTATGAGACCATCA	TAAAACTTT	ATAAAAATTTTG	CTTTTTT	TGA C	
AAGAGAGAAAGAGAATAAAA	TTTA				

ATATTTTG	TGTTTTATAAAAATA AGA-	GAA AC	ACT /
GAM38 ATGGATTTACTAGATCATT 24	TTATACGATC 373	- TTT - ATTT-	ACC
TATATACCAAAAAATATTAT	TACGTTTAT	ATG GAT AC TAGATC	ATAT A
ACGATCTACGTTTATTATA	TATA		
T	TAT TTA TG ATCTAG	TATA A	
	A TTT C CATAT AAA		
GAM39 CTTTTTACGACTCCATCAG 25	CATCAGAAAG 374	A CTCCA G G T A G GACCA -	AAAGA
AAAGAGGTTAACATTTTG	AGGTTAATA	T CGA TCA AAAGA GTT AAT TTTTT TGA	TCG
AAGAGAG G			
TGAGACCATCGAAGAGAGAA	TTTT		
AGAGATAAAACTTTTACG	A GCT AGT TTTTT TAA TTG AGAAA ACT	AGC TTTTTTC	
A			
ACTCCATCAGAAAGAGGTTT	- ACCAG G A T G G ACCTC A	AAAAT	
AATATTTTGTGAGACCATC			
GAAGAGAG			
GAM40 CTTTTTACGACTCCATCAG 26	CATCAGAAAG 375	A CTCCA G G T A G GACCA -	AAAGA
AAAGAGGTTAACATTTTG	AGGTTAATA	T CGA TCA AAAGA GTT AAT TTTTT TGA	TCG
AAGAGAG G			
TGAGACCATCGAAGAGAGAA	TTTT		
AGAGATAAAACTTTTACG	A GCT AGT TTTTT TAA TTG AGAAA ACT	AGC TTTTTTC	
A			
ACTCCATCAGAAAGAGGTTT	- ACCAG G A T G G ACCTC A	AAAAT	
AATATTTTGTGAGACCATC			
GAAGAGAG			
GAM41 CTTTTTACGACTCCATCAG 27	CATCAGAAAG 376	A CTCCA G G T A G GACCA -	AAAGA
AAAGAGGTTAACATTTTG	AGGTTAATA	T CGA TCA AAAGA GTT AAT TTTTT TGA	TCG
AAGAGAG G			
TGAGACCATCGAAGAGAGAA	TTTT		
AGAGATAAAACTTTTACG	A GCT AGT TTTTT TAA TTG AGAAA ACT	AGC TTTTTTC	
A			
ACTCCATCAGAAAGAGGTTT	- ACCAG G A T G G ACCTC A	AAAAT	
AATATTTTGTGAGACCATC			
GAAGAGAG			
GAM42 CTTTTTACGACTCCATCAG 28	CATCAGAAAG 377	A CTCCA G G T A G GACCA -	AAAGA
AAAGAGGTTAACATTTTG	AGGTTAATA	T CGA TCA AAAGA GTT AAT TTTTT TGA	TCG
AAGAGAG G			
TGAGACCATCGAAGAGAGAA	TTTT		
AGAGATAAAACTTTTACG	A GCT AGT TTTTT TAA TTG AGAAA ACT	AGC TTTTTTC	
A			
ACTCCATCAGAAAGAGGTTT	- ACCAG G A T G G ACCTC A	AAAAT	
AATATTTTGTGAGACCATC			

GAAGAGAG
 GAM43 CTTTTTACGACTCCATCAG 29 CATCAGAAAG 378 A CTCCA G G T A G GACCA -
 AAAGA
 AAAGAGGTTAACATTGG AGGTTAATA T CGA TCA AAAGA GTT AAT TTTTT TGA TCG
 AAGAGAG G
 TGAGACCATCGAAGAGAGAA TTTT ||||| ||||| ||||| ||||| ||||| |||||
 AGAGATAAAACTTTTACG A GCT AGT TTTTT TAA TTG AGAAA ACT AGC TTTTTTC
 A
 ACTCCATCAGAAAGAGGTTT - ACCAG G A T G G ACCTC A AAAAT
 AATATTTTGTGAGACCATC
 GAAGAGAG
 GAM44 CTTTTTACGACTCCATCAG 30 CATCAGAAAG 379 A CTCCA G G T A G GACCA -
 AAAGA
 AAAGAGGTTAACATTGG AGGTTAATA T CGA TCA AAAGA GTT AAT TTTTT TGA TCG
 AAGAGAG G
 TGAGACCATCGAAGAGAGAA TTTT ||||| ||||| ||||| ||||| |||||
 AGAGATAAAACTTTTACG A GCT AGT TTTTT TAA TTG AGAAA ACT AGC TTTTTTC
 A
 ACTCCATCAGAAAGAGGTTT - ACCAG G A T G G ACCTC A AAAAT
 AATATTTTGTGAGACCATC
 GAAGAGAG
 GAM45 CTTTTTACGACTCCATCAG 31 CATCAGAAAG 380 A CTCCA G G T A G GACCA -
 AAAG
 AAAGAGGTTAACATTGG AGGTTAATA TT CGA TCA AAAGA GTT AAT TTTTT TGA TCG
 AAGAGAG A
 TGAGACCATCGAAGAGAGAA TTTT ||||| ||||| ||||| ||||| |||||
 AGATAAAACTTTTACGAC AA GCT AGT TTTTT TAA TTG AGAAA ACT AGC
 TTTTTTC T
 TCCATCAGAAAGAGGTTAA - ACCAG G A T G G ACCTC A AAAA
 TATTTTGTGAGACCATCGA
 AGAGAG
 GAM46 GTGTGCCTGAATCGTCGAT 32 TGAATAGAGT 381 C TTCGAT C C CAA
 TAACCCTACTCATCCAATT TATCGATTCA GTGTG CTGAATCG TAAC CTA TCATC T
 CAGATGAATAGAGTTATCGA GACA ||||| ||||| ||||| |||||
 TTCAGACACAC CACAC GACTTAGC ATTG GAT AGTAG T
 A T---- A A ACT

GAM47 TCAGAAAGAGGTTAACATT 33 AGAGGTTAA 382 AAA GTTT-- GAGACCA- GA
 TTTGTGAGACCATCGAAGAG TATTTTGTG TCAG GAG AATATTTTGT TC A
 AGAAAAGAGAATAAAATATT AGAC ||||| ||||| ||||| |||||
 TTATGACTCCATTGA AGTT CTC TTATAAAAATA AG /
 AC- AGTATT AGAGAAAG AG

GAM48 TTTTATGAGACCATCAAAGA 34 AGAGAGAAAG 383 ACCA AAG AGA- AAAA A-
 - GA
 GAGAAAGAGAATAAAATAT AGAATAAAAA TCA AGAGAAAG ATAAAAATATTTTGT
 CTTTTTTT TGA C
 TTTGTAAAACTTTTTAT TATT ||| ||||| ||||||||| ||||| |||

GAGACCATCAAAGAGAGAAA	AGT	TTTTTTTC	TGTTTTATAAAAATA	GAAAGAGA		
ACT /						
GAGAATAAAAATTTTG	CCAG	A--	AAAAA	AGA-	GAA	AC
AAAACCTTTTATGAGACC						
ATCAAAGAGAG						
GAM49 TTTTATGAGACCATCAAAGA 35	GAAGAGAGAA 384	ACCA	AAG	AGA-		AAAA---
- A						
GAGAAAGAGAATAAAAATAT	AGAGAATAAA		TCA	AGAGAAAG	ATAAAAAATTTTG	
CTTTTTTG TG G						
TTTTGTAAAACCTTTTGT	AATA					
GAGACCATCGAACAGAGAGAAA			AGT	TTTTTTTC	TGTTTTATAAAAATA	
GAGAGAAC AC A						
GAGAATAAAAATTTTG	CCAG	A--	AAAAA	AGAGAAA	T C	
AAAACCTTTTATGAGACC						
ATCAAAGAGAG						
GAM50 TTTTCTTAGTACAAAAGTC 36	TCAATGTTT 385	A-	G- AT---	AAAAA	G	
AATGTTTAAAATATATGGA	AAAATATATG	TTTTTCTT	GTACAAAAA	TCA	GTTTT	
TATATGGACAA A						
CAAGAATTGTCTGTATAAA	GACA					
AACTTGTGTGAAATTTGTA			AAAAAGAA	CATGTTT	AGT	CAAAA ATATGTCTGTT A
CCAAAGAAAAA	AC	AA	GTGTT	---	T	
GAM51 ATGTAGTAATCGTTGTCGTG 37	ATGGTTCTT 386	C	TG GTGTTCC--	TCC	TTCTCC	-
T TTCT						
TCCTGTTCCACTTCTCC	CCGTACAACA	AT	GT TC	TGTT	TAC	AATCAT
ATAGATATT TCT A						
AATCATATAGATATTTCTT	TACT					
TCTATCATGGATAATATTG			TA TA AG	ACAA	ATG	TTGGTA TGTTTATAA AGG /
TAATGGTTCTTCGTCACAA						
CATACTGTTAGATGATATT			- GT	ATTTGTCAT	C-- CCTTTC	A T TACT
GCGCAT						
GAM52 GAATGACTCGTCCCTTAATA 38	TGACTCGTCC 387	GA	G TAATA AGTAG	- TCT		
GGCAGTAGGCTAGTATCTT	CTTAATAGGC	GAAT	CTC TCCCT	GGC	GCTA GTA	T
TTTACGTAGTAATCGTCGT	AGTA					
GGGAGAGAATTC			CTTA GAG AGGGA	CTG	TGAT CAT	/
A- - TG--- CTAA- G TTT						
GAM53 GAGATTGTATCAGTTCGTA 39	GATTGTATCA 388	--	T TA TGA	G T		
GTCTTGAGTATTGGTATTAC	GTTCGTTAGT		GAGATTGTA	TC AGT TCG	GTCT	GTATTG TAT A
TATATAGTATAGATGTCG	CTTG					
ACGCTAGATATACAGTCTC			CTCTGACAT	AG TCG AGC	TAGA	TATGAT ATA C
AT A C TG TA- - T						
GAM54 GGCAAATCTTATCATTGGTC 40	TAACATCGAT 389	CTT	- ---	TG-	TTGCTTT	
GGTGTGTTGGCTTGCTTGT	TCCCATATGA	GGCAAAT	ATCAT TGG	TCGGTGTT	GTC	G
GACTTTGATAATAACATCGA	TGTT					
TTCCCATATGATGTTGTT			TTGTTTG	TAGTA ACC	AGCTACAA	TAG /

--- T CTT TAA TTTCAGT

GAM55 AGTATGTTACGGAAAGAA 41 TGATTGGAGA 390 -- A GAAAGAA ATTACAAA A- TG--
- AAGA
CCATTACAAATATTATCCAT AGTAGGAAAC AGTA TGTTGT CG CC TATT TCCA
ATAGA A
GATAGAAAGAAAATATCTAT AGGA ||||| ||||| ||||| ||||| |||||
ATGATTGGAGAAGTAGGAAA TCAT GCAACA GC GG ATGA AGGT TATCT /
CAGGAACACGACAACGATTA TA - ACAA--- ACAAAGG- AG TAGTA ATAA
CT

GAM56 AAAATCGATTCCGTCCAAGA 42 TCGATTCCGT 391 C CCAAG AAAAACAA
TGATAAAAACATTACCGGC CCAAGATGAT AAAAT GATTCCGT ATGAT T
ATCATAAACACGGAGTTAT AAAA ||||| ||||| |||||
TTT TTTTA TTGAGGCA TACTA T
T CAAA- CGGCCAT

GAM57 CATGGAGATACTTATTACT 43 TAATGTCCTG 392 ----- T TAAATA
CCATTAAATAATTATCATG TTTCATTTGT CATGGAGAT AC TTATTACTCCAT A
GAGTGATAATGTCCTGTTTC TTCC ||||| |||||
ATTGTTCCATG GTACCTTG TG AATAGTGAGGTA /
TTTACTTTGTCC T CTATTT

GAM58 ACTGTATGCTCCTAGCGGAG 44 TGTATGCTCC 393 A - A AATCCTTCG T
TTAACCTTCGTTGTTCTA TAGCGGAGTT ACTGT TGCTC CT GCGGAGTT TTGT T
CAAAGTCTCTCGACTCCGCG AATC ||||| ||||| |||||
AGAGAGTAACAGT TGACA ATGAG GA CGCCTCAG AACAC
- A G CTCTCTGA- T

GAM59 ATACGGAATATCTACGTCCA 45 TCATCGGGTG 394 C C----- GT - T T
TGTCAATTGTCATCGGGT TATTCTCATT ATA GGAATAT TAC CC ATG CA T
GTATTCTCATTCAATTCTC CATA ||||| ||||| |||||
TAT TATCTTATA ATG GG TAC GT A
C CTTACTCTT TG C T T

GAM60 GCAAACTTCTGGTCTCGGA 46 TTCTGGTCTC 395 ACTTC A ----- C
TTAGGCGTCGTTACGTATAT GGATTAGGCG GCAAT TGGTCTCGGATT GG CGT G
ATCCACCAATCCGAGACCAT TCGT ||||| ||||| |||||
TGATTGC CGTTA ACCAGAGCCTAA CC GCA T
GTT-- - ACCTATATAT T

GAM61 GCTTGCAAATTGTATATTA 47 ATCGATCATA 396 TT ATT TAT C C CCGC AAT A
TTT
TTGACATCGACCGCGTAATA TCTATATCAT GCT GCAA GTATAT TGA AT GA GT ATAGT
GAG T

TAGTAGAGTTTATTCTCAT
 TATCGATCATATCTATATCA
 TCCATGTACTGCTTAGT CCAT ||| |||| ||||| ||| ||| |||
 TGA CGTT CATGTA ACT TA CT TA TATTA CTC /
 TT --- CCT A T ATAC GC- - TTA

GAM62 GTCGTTCTCGTTCAGAACATCT 48 TTGAAGACTC 397 T GTTC A TCG - G G
 TTCGCAGCATAAGTAGTATG TTCCAGAGAC GTCGT CTC AGA TCTT CAGC ATAAGTA TATT
 TCGATATACTTATCGTTGAA GAT ||||| ||||| ||||| |||||
 GACTCTTCCAGAGACGAT TAGCA GAG TCT AGAA GTTG TATT CAT ATA C
 - ACCT C --- C - G

GAM63 TAACAATATATTATTAGTTT 49 TTAATAATAT 398 ----- TA
 ATATTACTGAATTAATAATA AAAATTCCC TAACAA TATATTATTAGTTTA T
 TAAAATTCCAATCTTGTAA ATCT ||||| ||||| |||||
 ATTGTT ATATAATAATTAAGT T
 CTAACCCTTAAA CA

GAM64 TCTCAATAAGAACGATTAACG 50 TGGGGTTACT 399 C AA AACGAT-- CTA
 ATTTCCATGTCTACATTATA CTAATCGCT TCT AATAAG GATT TTCCATGT C
 TGGGGTTACTCTAAATCGCT TGTT ||||| ||||| |||||
 TGTTTACA AGA TTGTTC CTAA GGGGTATA /
 T G- ATCTCATT TTA

GAM65 TGTATTCAGTCAGACAAATGT 51 TTAGTAGCGT 400 A - AA TGACGTCG G C G
 CTGACGTCGGCCACGGTATT GGCAATGACA TGT TTCAGT CAGAC TGTC GCCACG TATT
 AGG A
 CAGGGAGTCCTTAGTAGCGT GGGT ||||| ||||| ||||| |||||
 GGCAATGACAGGGTCTGAAC ACA GGGTCA GTCTG ACAG CGGTGC ATGA TCC G
 TGGCACA C A GG TAA---- G T T

GAM66 TTGATATTACTTATAATAAC 52 TTAATTGTAA 401 T T-- CG - TG -- TT T
 GATTGTTAATTTTAGTT ATGATATTAT TTGATA TACTTA AATAA ATT TTTA ATT TAGTT
 TATACTATTAATTGTAAATG TATT ||||| ||||| ||| |||||
 ATATTATTATTTTTTAAGT GACTAT ATGAAT TTATT TAA AAAT TAA ATCAA
 ATTATCAG T TTTT AT TGT GT TT T

GAM67 TTTAAACTTGGCATATACA 53 AGATAACATA 402 CTT CATATACAA-- ACT
 AGTCTATACTTTAGTAGAT CCACACCATT TTTAAA TGG GTCTAT T
 AACATACCACACCATTAAAAA TTTT ||||| ||| |||||
 AAA AAATTT ACC TAGATG /
 TTT ACACCATACAA ATT

GAM68 TTTCTTTCACGATGCATCT 54 ATAAGTGGAC 403 TC- GA- ----- GA CGT
 TATTGAATGACGTTTCTCA ATATAGATGC TTTCTTT AC TGCATCT TATT ATGA T

TAAGTGGACATATAGATGCA	AGAA					
GAAGTAATGAAGAAA		AAAGAAG	TG	ACGTAGA	GTGA	TACT /
	TAA AAG	TATA	CAG	A-	CTT	

GAM69	TCGATGATACATGTATTAAA	55	TGATACATGT	404	A--	TGTA	T	TCC
	ATACCTTCCGAATAAGTCTT		ATTAAAATAC		TCG	TGATACA	TTAAAAA	ACTT G
	TTAAATATTGTATTATTAT		TTTC					
GA		AGT	ATTATGT	AATTTT	TGAA	/		
		ATTA	TATA	C	TAA			

GAM70	TGATAAATCTAAAAAAATA	56	AAAAAATTAA	405	A	AAAAAA	ATCATTAC	AA	A
	ATAATATCATTACAATTAA		ACAAATCGTT		TGATA	TACTT	ATAATAAT	AATT	TAGTT
	TAGTATAAACTAAAAATTAA		ATTA						
	ACAAATCGTTATTATAAGTA			ACTAT	ATGAA	TATTATTG		TTAA	ATCAA
	ATATCA		A	-----	CTAAACAAA	AA	A		

GAM71	AGCAGCGAACAAACACATCA	57	ATGGATTCTG	406	AACAAC	T	TAT	CA	
	GATATTTCATCGACATTTT		TGTTTATGCT		AGCAGCG	AACA	CAGA	TTCATCGA	T
	GATGGATTCTGTGTTTATGC		GTT						
	TGTT		TTGTCGT	TTGT	GTCT	AGGTAGTT	/		
			AT----	-	T--	TT			

GAM72	TAACAAGATTGGGAATTTA	58	TAATATAAAC	407	GATTGGGAAT-		AA		
	TATTATTAATTCAGTAATAT		TAATAATATA		TAACAA	TTTATATTATT	T		
	AAACTAATAATATATTGTTA		TTGT						
		ATTGTT		AAATATAATGA	/				
			ATATAATAATC		CT				

GAM73	TACATGCTGACATCTAATGC	59	TCTCTAGCGT	408	C	ATCTAATGCC	AA	--	C- T
AATA									
AC	CTGTATAACCATGAGAGCAT		GGATACAGTC		TACATG	TGAC	TGTAT	CCATG	AGAG ATC
C	CTACAATACATACCGTCGAT		ACCG						
	ATCTCTAGCGTGGATACAGT			ATGTGC	ACTG	ACATA	GGTGC	TCTC	TAG TG A
	CACCGTGTA		C	-----	--	GA	TA	C	CCAT

GAM74	TCCGTTTTATCACTATGTA	60	TATCACTATG	409	T-----	TGTA-	C	AT	T
	TATCTATATTAACGTCGTCG		TATATCTATA		TCCGTTTT	ATCAGTA	TAT	TAT	TAACG C
	TTGTAATGAAATAGTAGTTAT		TTAA						
	TGATCTATTATGAAACGG			AGGCAAAG		TAGTTAT	ATA	GTG	GTTGC G
A			TATATTATC	TGATG	A	AT	T		

GAM75	TGCTAAATATGCGATGTATC	61	TATTATACAA	410	A-	-	T	TCTAT	A	T-	AACAATAC
-------	----------------------	----	------------	-----	----	---	---	-------	---	----	----------

TATGTTATTTGTATTTATCT AAATTTTTA TGCT AATATGC GA GTA GTT TTTGTAT TATCTA
 C
 AAACAATACCTCTACCTCTA TTTC ||||| ||||| ||||| |||||
 GATATTATAACAAAATTTT ATGA TTATACG CT TAT TAA AACATA ATAGAT /
 TATTCAGCATATTAAAGTA AA A T TTTT- - TT CTCCATCT

GAM76 TTTTGATTACGATGTTATAA 62 TATAACATCG 411 ATGT TTAATT TG GAT
 GAATGTAGTTAATTGATGTA TAATCAAAA TTTTGATTACGATGTTATAAGA AG GA TAT G
 TGATGTTAATGTGTCTCTT |||||||| |||||
 TCCTCTTATAACATCGTAAT AAAACTAATGCTACAATATTCT TC CT GTA /
 CAAAA CCTT TC--- GT ATT

GAM77 GATTTGTGATTTCTTCC 63 ATAGTTAGAT 412 TTTT TTT TC A A
 TAAACTGTTACGTAAATAG AGAATATTCA GA GTGA TTCT CTAA CTGTTT C
 TTAGATAGAAATATTCAATTAG TTAG ||||| |||||
 TTC CT TACT AAGA GATT GATAAA G
 TGAT TAT TA - T

GAM78 GCGTCAAATATTCGGTT 64 TGGTATGTT 413 CAA- CC TTA- GTCAAGA
 AATATCGCATTGTCAAGAT ACGATAAGTA GCGT ATATTT CGT ATATCGCATT T
 AATAATAGAGTGTGGTATGT TAAT ||||| |||||
 TCACGATAAGTATAATAACG CGCA TATGAA GCA TATGGTGTGAG /
 C ATAA TA CTTG ATAATAA

GAM79 TATCTTTAAGAATTGTGGA 65 TCTTTAAGA 414 C A GATAT GA TA
 TATTAGGATATTATTACGTA ATTGTGGATA TAT TTTTA GAATTGTG TAG TAT T
 AACTATTACACAATTCTAAA TTAG ||||| |||||
 ATATA ATA AAAAT CTTAACAC ATC ATG T
 T - ATT-- AA CA

GAM80 ATTTAGACTGATGTATGGGT 66 TTCTCATCAT 415 GA T T - GTTT
 AATAGTGTGAAAGAGCTCG CAGAATAAT ATTTA CTGATG ATGGG AAT AGT G
 TTCTCATCATCAGAATAAT ||||| |||||
 TAAAT GACTAC TACTC TTG TCG /
 AA - - C AGAA

GAM81 AGCCGCTGAGTGGTAAACAA 67 CCGCTGAGTG 416 C ---- CAACA- AG
 CAGAACAGATAGTTATTAT GTAAACAACA AGC GCTGAG TGGTAAA GAAC A
 CTTACCAACACCCTCAGCC GAAC ||||| |||||
 GCT TCG CGACTC ACCATT TTTG /
 C CCACA CTATTA AT

GAM82 GACTAGATCCGTTAGTTAA 68 CGTTAGTTA 417 CCGTT T T CATC- TA

TATCCTCAGTCATCTTGTCT AGAATGGCAAATCTAACTGC GGGTTTAGGCTTAGTTAG TT	ATATCCTCAG GACTAGAT AGTTAA ATCC CAGT TTGTC G TCAT TTGATTTG TCGGATT TGGG GTCA AACGG A ATT-- - C ATCTA TA
GAM83 GGATGTAAAATGTTGATGAT 69	TTGATGATAT 418 AAAAT A CTACATCGTT TTT
ATCTACATCGTTGGATTT	CTACATCGTT GGATGT GTTG TGATAT TGGAT T
TATGTATCCACTTAAATAAT	TGGA
ATCATAGCTGTAACATCC	CCTACA CGAT ACTATA ACCTA A
	ATGT- - ATAATTTC-- TGT
GAM84 GTCCGTATCCAGTCAACACT 70	TAGCTTCAC 419 C CC C CA TA T
ATGTTAGCATTCTGTCGAT	TCATATGAC GTC GTAT AGT AA CTATGT GCA T
ATAGCTTCACTCATATGAC	
	CAG TATA TCA TT GATATA TGT T
	- C- C TC GC C
GAM85 TAGCTTCATAGTTAGATAC 71	CAGAAGTAGG 420 ---- GTCTCA- --- T A CT
AT	
ATGGTCTCAGAAGTAGGATT	ATTATGTAAC AGTTAG ATACATG GAA GTAGGATTA
GTAAC TCAG TCG A	
ATGTAACATCAGCTTCGATA	ATCA
AAATGACTGGGTATTAGT	TCAATT TATGTAC CTT CATTCTGAT TATTG GGTC
AGT A	
CTTACACATTGCTCATACA	GCCAG ATACTCG ACA T - -- AA
TGTATGACCGTTAACTACAG	
AGTCTA	
GAM86 TCGTAAGATACTCCTTCATG 72	TATGAAGTAA 421 A C-- GAAC TCA A
AACATAATCAGTTACAAAAC	AGTATCTACG TCGTA GATACT CTTCAT ATAA GTT C
GTTTATATGAAGTAAAGTAT	A
CTACGA	AGCAT CTATGA GAAGTA TATT CAA A
	- AAT --- TG- A
GAM87 TTCACCGTTGCATGTTACC 73	CCGTTGCAT 422 C C TTACCACTATCA AA
ACTATCAACCGCATAATACA	GTTACCACTA TTACAC GTTTG ATG ACCGCAT T
ATCGGGTGTTCCTTGTCA	TCAA
TCAAATTGTGAA	AAGTG TAAAC TAC TGGCGTA A
	T - TGTTCCCTTG- AC
GAM88 TTTCAGGAGATGATCTGCC 74	GCTACAGTTC 423 ---- - C C T TACCA-- A T
GTAGCTACCATGATAGTAGA	CTTGTTCGTC TTTCAG GAGAT GAT TCG CG AGC TG
TAGTAGA G	
TGCCTCTGCTACAGTTCCTT	GACA
GTTCGTCGACATCTATCTT	AAAGTC TTCTA CTA AGC GC TTG AC ATCGTCT C
GCATTCTGAAA	TTACGT T C T - TTCCCTTG - C

GAM89 TGATGCATTAATTTGTAT 75 TGCATTAATT 424 C A A TTC CCTAAAAA AAAA
 AATAAG
 TGATTCTCAATCCTAAAAAC TTTGTATTGA TGATG ATTA TTTTGTTGAA TCAAT ACT
 TATG T
 TAAAATATGAATAAGTATTA TTCT ||||| ||||| ||||| III III
 AACATAGCGGTGTACTAATT ATTGT TGAT AAAAATA AATT AGTTA TGG ATAC /
 GATTTAACATAAAAAATAGT - A C T-- ATCATG- CG-- AAATTA
 TGTAA

GAM90 GTTGTGCGATGCCATG 76 TGTTTGCGA 425 TG T A CCAT--- A CAG
 TATCTACTAATCAGATCTAT TAGCCATGTA GT T TTGCG TAG GTATCT CTAAT A
 TAGAGATATTATTAATTCTG TCTA ||| ||||| ||||| IIIII
 GTGCAATATGAC CA A AACGT GTC TATAGA GATTA /
 GTT G TTAATTAT - TCT

GAM91 ACTGATTCTGGACATAGCTT 77 TAAGTTGGC 426 T GACA T C G----- AT
 TCCGACTGGCGCATTGGTG AGCTAGCAGA ACTGA TCTG TAGCT TC GACT GCGC T
 TGATGGTCCCATAAGTTTG TTCA ||||| ||||| ||||| IIIII
 GCAGCTAGCAGATTCACT TGACT AGAC ATCGA GG TTGA TGTG /
 T G-- C T ATACCCTTGGTAG GT

GAM92 ATATGTGTATTATCAGATAT 78 TCCTCCTAGG 427 T T AAAATTT ATG
 CCAAAATTTGTATGAAGAA ATATTTGTAAT ATATG GTATTA CAGATATCC GT A
 CTCTCCTAGGATATTGTA TATC ||||| ||||| ||||| II
 ATATCTATGT TGTAT TATAAT GTTTATAGG CA /
 C - ATCCTCCT AGA

GAM93 ATCATCATTTCACCATT 79 TGAGAATACT 428 A TTTCACCAATTAC TC - CA
 ACTTCTTCCATGTCCAATAT AAAATTCTA ATCATC TT TTCT CATG TC A
 GATCATGTGAGAATACTAAA ACGA ||||| ||||| IIII IIII
 ATTCCTAACGATGAT TAGTAG AA AAGA GTAC AG T
 C TCCTTAAATCAT GT T TA

GAM94 GAAATTGTTGCTCCATGGA 80 TAATAGTTAC 429 AA T TCC GAA CCAA T
 ATGACCCAATAAGTAGATT CACGTGCTGT GA TTG TGC CATG TGAC TAAG A
 AATAGTTACACGTGCTGTA ACCA ||| ||||| ||||| IIII
 CCAAAGTC CT AAC ATG GTGC ATTG ATTT G
 GA C TC- ACC ATA- A

GAM95 TGGTTCTTCCATAGTACAT 81 TCCATAGTAC 430 TCT GTACATAG GGTG
 AGTTGTTGCGGTGCAGAAGC ATAGTTGTTG TGGT TTCCATA TTGTTGC C
 AATAAAATACAGAGTGTGGAA CGGT ||| ||||| |||||
 CACCA ACCA AAGGTGT AATAACG /

C-- GAGACATA AAGA

GAM96 TTAATAGTTACACCTTTA 82 TAGTAGGACT 431 TTTTA A C TA-- -- CAT CT
GAATTCCA
GTAGGACTAGTATCGTACAA AGTATCGTAC ACACC GT GGA TAG TCGT ACAATT AG
GTATTTT A
TTCATAGCTGTATTTGAAT AATT ||||| ||||| ||||| ||||| |||||
TCCAATCACGCATAAAAATA TGTGG TA CCT ATC AGCA TGTTAA TC TATAAAA
T
TCTTCCAATTGTTGACGAAG CCTAC - A CAGA GT CCT -- ATACGCAC
ACCTAACCATCATCCGGTG
TAATATTAA
GAM97 TTCATCCGATAAACTCCAAT 83 TTTGTGGTAT 432 - AACT A G GATA
AAAAAGATGATATATCTAGT TGGATAGAA TTC ATCCGATA CCA TAAAAAA AT T
GTTTTGTGGTATTGGATAG AA ||||| ||||| |||||
AAG TAGGTTAT GGT GTTTTG TG A
A --- - G ATCT

GAM98 TTAGTGACAGACCAGACCTA 84 TGACAGACCA 433 T ----- GA --- TC
GGAGCTATTCTACCATAGCA GACCTAGGAG TTAG GACAGA CCA CCTAGGA GCTAT T
AATCTAGGCATGGACATAC CTAT ||||| ||||| ||||| |||||
TAATATCTGTCTAA AATT CTGTCT GGT GGATTCT CGATA A
- ATAATCATACA AC AAA CC

GAM99 AACAAAGAAATGGAAATCGT 85 TTGAAATTGT 434 AG T TAATACC T
AATACCAGTTATGTTAACT TTTTATTTT AACAA AAATGGAAA CG AGTTA G
TTGAAATTGTTTTTATTTT CTTG ||||| ||||| |||||
CTTGTT TTATTTT GT TCAATT
CT T TAAAGTT T

GAM100 TTCCACTGTCCAAAATGATG 86 TCCAAAATGA 435 ACT A G - C CCTTTTTA
CCTCTGCCTTTTATACATG TGCCCTGCC TTCC GTCCAA AT ATG C TCTG T
TTCCAGATGTCATAATATTG TTTT ||||| ||||| |||||
GATTGGGAA AAGG TAGGTT TA TAC G AGAC /
GT- A A TT CTTGTACA

GAM101 CTGTGACCAAGATAGAGAGC 87 GTGAATCCAT 436 ACCA GCTCC-- TGAAT T CTA
AGTTT
TCCTTGGAATCCATCTC CTCTATGTTT CTGTG AGATAGAGA TTTGG CCA CT
TGTTTC A
TATGTTTCAGTTAACCAAG CAGT ||||| ||||| ||||| |||||
AAACAGTCAGCTGGTCTAAA GACAT TCTATCTCT AAATC GGT GA ACAAAG /
ATTCCATCTATCTAATA AA-- ACCTTTA T--- C CTG AACCA
CAG

GAM102 GTTTCTTTAGAAGTGATT 88 GAAGTGATT 437 T-- GAA TT- A G
TTTGTGGTGCAGCATACG TTTGTGGT GTTTCT TTA GTGATT TG TG T
AATTACAATAATGCAGAAC TCAG ||||| || ||||| |||
CAAAGA AAT CATTAAAG AC AC G
CGT AA- CAT G T

GAM103 TTGATACGATATTGTTGGA 89 TTTGTTGGAT 438 TACGA- - CCTG TT
TTCCTGATTATTTACTATAA TCCTGATTAT TTGA TATTTGT TGGATT ATTAT A
TATAATCTAGACAGATAGAT TTAC ||||| ||||| ||||| |||||
GATTCA AGCT ATAGACA ATCTAA TAATA /
TAGTAG G TA-- TC

GAM104 AATATCGGGCCAATAGTAGC 90 GGCCAAATAGT 439 CG A AG - C
TATTACCGTCGACACGTGTA AGCTATTACC AATAT GGCCAA TAGT CTATTAC CGT G
GTGGAACTATGGCCAAATG GTCG ||||| ||||| ||||| |||||
TT TTGTA CCGGT ATCA GGTGATG GCA A
AA - AG T C

GAM105 AGACTTCTGGCGGTTGCCAT 91 TTATCCCAAT 440 --- CG CCAT- ATA
AGAATATACGTCGTTCTTAT TACCAACTAG AGACTTCT GG GTTG AGAAT C
CCCAATTACCAACTAGAAGT AAGT ||||| || ||||| |||||
CT TCTGAAGA CC TAAC TCTTG /
TCAA AT CCTAT CTG

GAM106 GAAGTTTTGGAGAATAATA 92 GGAATTGGAG 441 GAATAAT ----- TATT CA
ACAA G
TGACTCATGATCTATTCGT GCGATGATCT GA ATGACTCAT GATC TCGTC TAA
TCTA A
CCATAAACAAATCTAGACATA TAAT || ||||| III ||||| III |||||
GGAATTGGAGGCGATGATCT CT TGCTGAGTA CTAG AGCGG GTT GGAT
C
TAATTTGTGCAATGAGTCG AAC--- ACGTGTAAATT T-- AG AA-- A
TCAATCCTATAACTTC

GAM107 TAATCCCTTTTCAGATGCC 93 GCGCTCCCCT 442 - TTTCA GCCTCTTTA CA
TCTTTAGTTATCAAAAAT AGTCGTACTC TAATCC CT GAT GTTAT A
AAGCGCTCCCTAGTCGTAC AGAG ||||| || |||||
TCAGAGGATTA ATTAGG GA CTG CGAATA /
A CTCATG ATCCCCCTCG- AA

GAM108 TTAAATAGTTACGCAATATC 94 TTAGCTGTTT 443 TTAC T C----- T- T
TCAATAGTTTCATAATTGTT TCATCAAGAT TTAAATAG GCAA ATCT AATAGTT CA A
AGCTGTTTCATCAAGATT TTGT ||||| || ||||| |||||
GTACCCTGTTAA AATTGTC TGTT TAGA TTGTCGA GT A
CCA- - ACTACTT TT T

GAM109 TGCCGTTACTATTATTATA 95 TATTATTAT 444 C AT--- TAA TG A C
 ACTGATGTAACCCACGTAAC AACTGATGTA TGC GTTACTATT TTA C ATGT ACC
 ATTGGAATTAACATATCGATA ACCC ||| ||||| ||| | |||||
 GTAATGCA ACG TAATGATAG AAT G TACA TG A
 - CTATC TAA GT A C

GAM110 ACACCGGTGCTAACTAGTG 96 ACGCGTGTCT 445 G - A TCGTCA T AGTT A
 GAGGTTCGTCAGCTGCTCA AACTAGTGGAA ACAC CGTGTCTAACT GTGGAGGT GCTGC CT
 TGA T
 GTTGAAATCATCATCGGCGT GGTT ||| ||||| ||||| ||||| |||
 AGTATTCCCTACTTTACAGT TG TG GCACAG ATTGA CATTTCAT TGATG GG ACT C
 TAGGACACGGTGT - G - TCCTTA C CT-- A

GAM111 CAGCATCCGGCTTATCCGCC 97 CGAGGAGGAA 446 A T - G C TCA
 TCCGTTGTCATAAACCAACG TATCGTCGGA CAGC TCCGGC TAT CC CCTC GTTG T
 AGGAGGAATATCGTCGGAGC GCTG ||| ||||| ||| ||||| |||||
 TG GTCG AGGCTG ATA GG GGAG CAAC A
 - CT A A - CAA

GAM112 CCATTAATATCTCTATTATA 98 TATACCAGAA 447 ATCTCTATTATAGCT AC TC
 GCTCTGGACATAATTATC TTAATGG CCATTAAT TCTGG ATAAT A
 TATTATACCAGAATTAATGG ||| ||||| ||| |||||
 GGTAATTA AGACC TATTA T
 ----- A- TC

GAM113 CTTCATTATGAATTGATTCT 99 TGAATTGATT 448 T T --- G TAT-- C-- CA TT TAG
 TT TGAGGTATAAACCTAACACA CTTGAGGTAT A GAAT GATTCT T AGG AAAC TAACA AA
 ATATTAT AC T
 AATTATATTATTAGACTTT AAAC ||| ||||| ||| ||||| ||||| |||
 CGTATGTAATGTCTTCATG TTTA CTAAGA G TCC TTTG ATTGT TT TGTAATG
 TG /
 TTATAAGTTTTAATCCTGG - T TAA G TAATT AAT AC TC TA- CT
 AATAGAATCTATTTAATGA
 GG

GAM114 GAAGAGATGTAACGGGAACA 100 ACGGGAACAG 449 -- ACG CAG TG
 GGGTTTGTGATTGCAAAC GGTTTGTGA GAAGAG ATGTA GGAA GGTTTGT A
 TATTCTAACATAATTCTT TTG ||| ||||| ||| |||||
 C CTTCTT TACAT TCTT TCAAACG T
 AA AA- A-- CT

GAM115 GTTAATACGTCTGCACGTA 101 TGCACGTAAT 450 - C- CTAT CC
 ATCTATTATAGATGCCAAGA CTATTATAGA GTTAATA CGTCTTGCA GTAAT TATAGATG A

GAM122 TCTAGTTATCAATAACAGTT 108 TCAATAACAG 457 GTTA C-- - TTAG- TA
AGTAGTTAGTTATACATTG TTAGTAGTTT TCTA TCAATAA AGTTAGTA GT TTA C
AATCATACATATTAATTTT AGTT |||| ||||| ||||| |||||
TTATTGAGATAGA AGAT AGTTATT TTAATTAT CA AGT /
AG-- TTT A TACTA TA

GAM123 TCCGCACTATCGATTTGATA 109 TAAAGCTATC 458 CACT T- - - T
CTTCTTTTCAGAGTAAAGC GTCATTGATC TCCG ATCGAT TGATA CTTT CTT
TATCGTCATTGATCATCGGA ATCG |||| ||||| ||||| |||||
AGGC TAGTTA GCTAT GAAA GAG C
TAC- CT C T A

GAM124 TTCTAGAGTAGTAGTCCTAA 110 TCTTATTGTC 459 T CT CATTCTCT--- TTAT- TCCT
TT ATGT GT
TCATTCTCTAAATTTATG TGATTATT TAG AGTC AAT TAAATT GTA AGT CA
CTC A
TATCCTAGTTCAATGTCTC CTTT |||| |||| ||||| ||||| ||||| |||||
GTAATGAGTTGTGCTGCTC ATC TCGG TTA ATTTAG TAT TCG GT GAG /
TTATTGTCTGATTTATTCTC - TT CCATTTCTTT TCTGT TC-- TC GTTT TA
TTTACCATTTGGCTCTATT
CTGAA
GAM125 GATCTATAGTCTCGTATCT 111 TGTTACGAAA 460 - CTTC- CT T AA TAT TT
GTTACGAAAATCAATATATT ATCAATATAT GATC TATAGT GTAT GT ACGA ATCAA
ATTCAAGGA A
CAGGATTATTTCTGAATCA TCAG |||| ||||| ||||| ||||| |||||
CTTGATTCTGCACTAATATA CTAG ATATCA TATA CA TGCT TAGTT TAAGTCTT /
CATAACTATATGATC T ATACA AT C -- CAC TT

GAM126 TGTACGATTGTATTGCGTTA 112 TTAGTCAATG 461 A TATT - AC TAA
CTAAACGATAAAATAATTCTT CTTAACGTA TGTACG TTG GCGTT ACTAA GA A
AGTCAATGCTTAACGTACA CA ||||| ||||| ||||| |||||
ACATGC AAT CGTAA TGATT CT T
- TT-- C -- TAA

GAM127 GCGTATCTACTACTCCAAT 113 TCCAAATTGC 462 CTACTCCA A TTC TAT
TGCAGTTCTGGTATCCATC AGTTTCTGGT GCGTATCTA AATTGC GT TGG C
CATACCGCTAATTATCAAAT ATCC ||||| ||||| |||||
AGATATGT TGTATAGAT TTAATG CG ACC /
AAACTA-- - CAT TAC

GAM128 TATATCCTACCGCTTTTAT 114 TAATAAGATG 463 CG TTT C-- -- ATG TTTTATGTTAT
TTA TTA
CAACTATGTAATGAGTTTTT CTAATACATC CT TAT AACT ATGTA AGT GTCTT
GTTAGG A

ATGTTATGTCTTTAGTTAG
 GTTAATATTCTAATAAGATG
 CTAATACATCAGGTTAAAGT
 ATTAGAATGGGATTATA

AGGT ||||| ||||| ||||| |||||
 GA ATG TTGG TACAT TCG TAGAA TAATCT /
 A- TT- AAA AC AA- ----- --- TAT

GAM129 ATCAGACCATACTGAGTT 115 TGAGTTGGCT 464 AC TAT TT - - - CGT
 GGCTACTATCTTGTACGTAT ACTATCTTGT ATCAG CA ACTGAG GGCTA CTA TCT TGTA A
 ATTGCATGGAATCATAGATG ACGT ||||| ||||| ||||| |||||
 GCCTTTCACTGTTGAACGGT TGGTC GT TGACTT CCGGT GAT AGG ACGT /
 AA --- TT A ACTA T TAT

GAM130 TAGTCACGACTGAAATAACC 116 CGGCATGGTT 465 ACT AA- C -- TTT
 GCGTGATTATTTTTGGTAT TCTGTGACTA TAGTCACG GAAAT CCG GT GATTAT T
 AATTCTACACGGCATGGTTT ||||| ||||| |||||
 CTGTGACTA ATCAGTGT CTTTG GGC CA TTAATA T
 --- GTAC A TC TGG

GAM131 TCATCCAATATTATTGAAAT 117 TGATGGACAG 466 CA TTGA- TT CAG TACAAATA
 A AC T C
 GACGTTGATGGACAGATGAT ATGATACAAA ATATTA AATGACG GATGGA ATGA AGA
 GGT GG AC T
 ACAAAATAAGAAGGTACGGTA TAAG ||||| ||||| ||||| |||||
 CCTTTGTCCACCATCTCCTC TGTAAT TTACTGT TTATCT TACT TCT CCA CC
 TG T
 CAATTCACTGCTCTATTTGT -- TTCAA T- CG- TAACCTCC A -- T
 CATTAACCTTAATGTATGA

GAM132 TCGTCGGTATTTTTATGGC 118 CGGTATTTT 467 CG A C TTTACTCT
 AAACTTTACTCTTCCAGCAT TATGGCAAAC TCGT GTATTTTT TGG AAAC T
 CCGTTCTAAAAAAATATTA TTTA ||||| |||||
 ACGA AGCA TATAAAAAA ATC TTTG C
 AT - - CCTACGAC

GAM133 ACCATTCCAAGTCACTGTGT 119 TATCATAAGC 468 TTCCA CTG- TA GAT
 GTAAGAAGATTATATTCTAT TTGACTACAT ACCA AGTCA TGTG AGAA T
 CATAAGCTTGACTACATTTG TTGG ||||| |||||
 GT TGGT TCAGT ATAC TCTT /
 TTACA TCGA TA ATA

GAM134 ATATCTTAACTAAGTCAAT 120 TCAATGATT 469 AACT ATTCATCAACCG-- TC
 GATTCATCAACCGTTAGAT CATCAACCGT ATATCTT AAGTCAATG TTAGA T
 CTATTTAAAGTTAACATCA TAGA ||||| |||||
 TAGGCATTGATTTTAAAG TATGGAAA TTTAGTTAC AATT /
 GTAT ATT- GGATATACTAATTGA TA

GAM135 CAGCCGAAACATATTCTACC 121 CATGGCTCCG 470 CC ATTCTACC GC A- T
 ATGGCTCCGTTAATTGTT TTTAATTGT CAG GAAACAT ATG TCCGTTT ATT G
 GATGAAGATGGATTCATCCT TGAT ||||| ||||| ||||| |||||
 TAAATGTTTCTCTG GTC TTTTGTA TAC AGGTAGA TAG T
 TC AATTCC-- TT AG T

GAM136 CCGTTTTAGACCGAGACTC 122 TAACTCGGAT 471 TTT- - ACTCCA TAAA CA
 CATCCGTAaaaATGCATACT CTGCTATATG CCGT TAGA CCGAG TCCG AATG T
 CGTTAGTTGGAATAACTCG G ||||| ||||| ||||| |||||
 GATCTGCTATATGG GGTA GTCT GGCTC AGGT TTGC A
 TATC A AATA-- TTGA TC

GAM137 CGCTTCTATCTTGTAGAT 123 TGACTAGATA 472 --- GTTT TT TAAA TCTC--
 ACATA
 TTATTTTATAAGTTAGT AACTATCAGT TCTATCTT AGATTATT TA GTTAGTC
 CTTCCA A
 CTCTCCTTCCAACATAATAA AAGT ||||| ||||| ||||| |||||
 AAGTGGAAAGTCATTGACTA AGATAGAG TTTGAATGA AT TAGATCAG GAAGGT
 T
 GATAAACTATCAGTAAGTTT AAGC ATAT CT CAAA TTTACT GAAAA
 TATAGAGATAGACGAACAAT
 TAGCG

GAM138 GACATACATACTATCTTAA 124 ACTATCTTAA 473 C TT----- CTCT C--- AAT--
 T
 TAGAACTCTTTCATCCAGT ATAGAACTCT CATA TATCT AATAGAA TTTCAT CAGTTG
 GGA T
 TGAATGGATTCGTCCTAAC TTTC ||||| ||||| ||||| |||||
 CAACTGATTAATGAGATCTT GTAT GTAGA TTATCTT AGAGTA GTCAAC CCT
 C
 CTATTTATCATTCCAGA A CCTTTACTATT CT-- ATTA CAATT G
 TGATATGTATGTC

GAM139 TACAAAGGAGATGATTATC 125 TATGGTATTA 474 ----- TTATCTAT TT - C TC
 A
 TATGGTATTAAGAATTGTT AGAATTGTT ACAAAGGA GATGAT GGTA AAG AATT
 GTTTT GAC T
 TTTCGACATCCGTAAACC TTTC ||||| ||||| ||||| |||||
 ATTCCCTTTGCCTGTATC TGTTTCCT CTACTA CCGT TTC TTAA CAAAA
 CTG C
 ATCCAGTTTCCATCCTTG ACCTTTGAC TGT---- TT C C -- C
 TA

GAM140 TGTCACTTGTATTGGCCA 126 TTCCCTCGGCC 475 --- T-- AACC-- TT
 ACCTTTGTTGACAAATTCC ATTTAATAT TGTCACTT TGTAA TGGCC TTTG G
 TCGGCCATTTAATATTTAA TTAA ||||| ||||| |||||
 GTGATA ATAGTGAA ATAAT ACCGG AAAC /
 TTT TTT CTCCTT AT

GAM141 TTGCTAGACACCTTTCAAT 127 TTTGATAAAG 476 T ACAC- - T A T
 GTTAAATTTTTGAAATAA CCTTCCTCGC TTGC AG CTTT TCAA GTTTA TTT T
 GCTTGATAAAGCCTTCCTC AA |||| || |||| |||| |||| |||| |||| ||||
 GCAA AACG TC GAAA AGTT CGAAT AAG T
 C CTTCC T T A T

GAM142 CACCGCCTCTAGATATGCC 128 CGCCTTATT 477 CG ATCG-- TTTAT ACATT
 AAATCCA
 A TTTATTCACATTAGATGG TCCACATTAG CAC CCTCTAGAT CC TTCC AGATGGT
 TAAATCCAATAGTGAAACTA ATGG |||| ||||| || |||| |||||
 TCTTTTAGGAATGTATGGA GTG GGAGATTTG GG AAGG TCTATCA /
 CTCGCGTTAGAGGAGTG A- CGCTCA TATGT ATTTT AAGTGAT

GAM143 GACACTTGCCGGCGTTGT 129 ACATATCCGT 478 CT CC T-- ATTTATCA
 AGATTATCATATTCTCCA TACAATTGT GACA TTG GGCGG TGTAG T
 CTACATATCCGTTACAATT T TTGT AAC TTGCC ACATC A
 GTT TT A- TAT ACCTCTT

GAM144 GAGACTTGATAGATATTAGT 130 TCACCACGTG 479 - - TAG TA- TTGAA
 GATGAATTGAAAATTATTT TGTTTCAGGA GA GA CTTGA ATAT GTGATGAA A
 TATCACACGTGTGTTCACT TCAT |||| |||| |||| |||||
 GATCATC CT CT GGACT TGTG CACTATTT A
 A A TTG CAC TTATT

GAM145 GGCTATTCTGGCGGCTAGAA 131 TGCTATTCG 480 C TA TAAT GA TGT
 TGGCATAATCCGGATGTTGT GCTGCCAGAG GG TATTCTGGCGGC GAATGGCA CCG TGT
 G GTAGTACAAGTGGCTGCTAT TGTC |||| ||||| ||||| |||||
 TTCGGCTGCCAGAGTGTCC CC GTGAGACCGTCG TTTATCGT GGT ACA T
 T GC C-- GA TGA

GAM146 TATATACGATAAGATATGTT 132 TAAGATATGT 481 C --- TTT A ----- -- AATT
 TATTCTAAACGCGTCAAAT TTATTCATAA TATATA GATAA GATATG ATTC TAAAC GCG
 TCA T
 TTTTCATGAATCGCTAAGGA ACGC ||||| ||||| ||||| ||||| |||||
 GTTTAAGAACATCTCATGTCAA ATATAT CTGTT CTGTAC TAAG ATTTG CGC AGT /
 ATTGTCCTATATA C AAA TC- A AGGAAT TA ACTT

GAM147 TCTGGTTCTATGTTCTCGT 133 TCTATGTTCC 482 TC --- TT C TATT
 TTCTGTATTCTTTAAGA TCGTTCTCG TCTGGT TAT GTTCCTCG TC TG C
 TCGAGGAACGCCATAATATC TATT ||||| ||||| ||||| |||||

AGA

AGACTA ATA CAAGGAGC AG AT /
TA CCG T- A TTTT

GAM148 GGAACAAATATAGTATCTGA 134 TATAGTATCT 483 A- G C AA TTCATA TC
AATCATATTATATATCCCG GAAATCATAT GGAACAAAT TA TAT TG ATCATA TA C
TTAGAGGTCTATGATAATAT TCAT ||||| || |||| |||| ||||| ||
ATAGTAGCGTTGTTCC CCTTGTGG AT ATA AT TAGTAT AT C
CG G T AA CTGGAG TG

GAM149 TTCCCTTCGTTGATCTCTC 135 TCGTTGATCT 484 CGTT TCT TA G
ATAGATTTAGAAATAAATTC CTCATAGATT TTCCCTTT GATC CA GATTAA
TTGCGATCCTCCAAAAGGAG TAGA ||||| |||| |||||
GAGGAAAAA CTAG GT TTAAAT A
CCTC C- TC A

GAM150 ATTGGAATTATAATATAGGT 136 ATGCATCGGT 485 TATA- G ---- C - G
GTATTTGCGCACTCGCGACG AAATATAGCT ATTGGAAT ATATAG TGTATTGC GCA TCG C
A
GTTGATGCATCGGTAAATAT GTAT ||||| ||||| ||||| |||||
AGCTGTATCTAATGTTCTAG TGATCTTG TATGTC ATATAATG CGT AGT G C
T TAATC G GCTA - TG

GAM151 GTATATCATCAGCTGAAAAA 137 TTCCCTCGGC 486 CA----- AAAC TT
CTATGTTTACACGTATTCC ATTTCTTTT GTATATCAT GCTGAA TATGT T
TTCGGCATTCTTTTAATG AATG ||||| ||||| |||||
ATATAT TATATAGTA CGGCTT ATGCA /
ATTTTCTTTA CCTT CA

GAM152 ACAACTATGCCTTAGATT 138 TAAGATAAAC 487 A CT-- A CCTAATT CACGG
TAT
ATCTCCTAATTATAACACG TAAATCTCGC ACAACT TGC TTTAG TTATCT TATAA CCG
A
GCCGTATACACTTGGAAATAC AAAG ||||| ||||| ||||| |||||
TTGTACAATCTAAGATAAAC TGTTGA ACG AAATC AATAGA ATGTT GGT C
TAAATCTCGCAAAGTTGT A CTCT A ATCTAAC CATAA TCA

GAM153 GGATTTAGAATTCCAAT 139 TGAAATCCAA 488 T AATT AAA--- --- T
TCACCAGCGATTATCGGTT GGATTTATTA GGAT TTAG TCC TTCACCAG CGA T
TTGGTGAAATCCAAGGATT ATGT ||||| ||||| ||||| |||||
ATTAATGTCC CCTG AATT AGG AAGTGGTT GCT T
T ATTT AACCTA TTG A

GAM154 ATGGTCGAAGTATAGCAGGA 140 TAGCAGGACA 489 ---- A CATT- GCTC CCG TA

CATTGATGCTCTAGACCGTG TTGATGCTCT ATGGT CGAAGTATAGC GGA GAT TAGA TG
 TATAACAAAATCTACAAATT AGAC ||||| ||||||||| ||||| |||||
 TTTCATCCGCTATTTGT TATCA GTTTTATATCG CCT TTA ATCT AC /
 TTCACTAT CTTT - ACTTT AAC- AAA AA

GAM155 GGTGTTAACCACTATATGT 141 TCCACTATAT 490 T - ----- - A--- C ATAACA
 CAT
 TTCTGTAGCGGCTGATAACA GTTCTGTAG GGTGT AATC CACT ATATGT TTCTGT GCGG
 TG CAG C
 CAGCATCCAAGTGAGCATCC CGGC ||||| ||||| ||||| ||||| ||||| |||||
 GCGTCCGAGAGCACATATT CTACA TTGG GTGA TATACA GAGACG CGCC AC
 GTC /
 TTTAACAGTGAGGTTACATC - A CAATTTT C CCTG T GA--- AAC

GAM156 GTTAGCAAGAAATTAAACATT 142 TTCCGCATAT 491 C A-- CATTG ATTC A T TCCC
 GGCATTCGAACACTCTGGAT TTTAATGACT GTTAG AAGA ATTAA GC GAAC CTC GGA A
 CCCAACATTCTCGAGGTTCC CTTC ||||| ||||| ||||| ||||| |||||
 GCATATTTAACATGACTCTTC CAATC TTCT TAATT CG CTTG GAG TCT /
 TAAC - CAG TTATA C--- - C TACA

GAM157 TCAGTGGGTACTCCGGAGG 143 GAGCTCAACA 492 TACTCCC-- A ----- GT
 CGGATCCCGTTAGGGAGCT CTTACTCCGC TCAGTGGG GG GGCGGA TCCC T
 CAACACTTACTCCGCCACCC CACC ||||| ||||| ||||| |||||
 ATATTTATCTCATTGA AGTTACTC CC CCGCCT AGGG /
 TATTTATAC A CATTACAACTCG AT

GAM158 ACACGACTGTGGTAGATTG 144 TGTGGTAGAT 493 C TG-- A T AGA C T
 TTCTATAGAGCCGGTTCCG TTGTTCTATA ACA GAC TGGTAG TTTGT CTAT GC GG T
 CAAATAGATAGAACTACCAA GAGC ||||| ||||| ||||| |||||
 TATGTCTGT TGT CTG ACCATC AGATA GATA CG CC /
 - TATA A - AA- - G

GAM159 ACAGTTGAAAAATAACAGT 145 AACAGTATCA 494 AATA TCATTTAACAT TG
 ATCATTAAACATTAACTT TTAAACATT ACAGTTGAAA ACAGTA TTAAC T C
 GCGGGGTTAATTCAACACT TAAC ||||||| ||||| |||||
 TTACTGTTTAAGCTGT --- TGCGAATTT TGTCAT AATTGG /
 --- TTCAACACTT- GG

GAM160 CCACCTGTTAACATATAA 146 TAATATTGAT 495 T- -- GA T TATCCGTCATTG- -----
 --- TT
 TAGGCAGGAGATAGATATCC AAAATCTCCA ATAATAG GCAG GA AGA CAATATT
 CCT T
 GTCATTGCAATATTCTTT TTCT ||||| ||||| ||||| ||||| ||||| |||||

CGTAGGCACACAATCTAATA TATTATT CGTC TT TCT GTTATAA GGA C
 TTGATAAAATCTCCATTCTC TC TA TC C TACCTCTAAAATA TCTAACACAC TG
 TTCTCTGCATTTATTATCTT
 GTTTCGGTG
 GAM161 TACTTTTCTTACCTTGAG 147 TGAGAATATC 496 TTTACC -- T - CGT TGG
 AATATCCATCGTTGCTTGG CATCGTTGC TACTTTTC TTGA GAA ATC CAT TTGCT T
 TCAATAGCGATATGTGATT TTGG ||||| ||||| ||||| |||||
 TTTATCAACCACACTCGAAAAA ATGAAAAAG AACT TTT TAG GTA AGCGA C
 GTA CTCACC AT T T T-- TAA

GAM162 TAGTACTAGACTGACTTCTA 148 TATTAAAGTC 497 TAC CT C-- A A CTCACCTG
 ACAAACATCTCACCTGCCAT TTCTATTCT TAG TAGA GACTT TA CAA CAT C
 AAATAAATGCTTGATATTAA A ||||| ||||| |||||
 AGTCTTCTATTCTA ATC ATCT CTGAA AT GTT GTA C
 TTT T- ATT A C AATAAATA

GAM163 AAATTATTCTTATCATGCGT 149 ATTATTCTTA 498 T TATCAT TCC TCC T
 CCATAGCCCCGTTCCGTATC TCATGCGTCC AAA TATTCT GCG ATAG CG T
 TATTATCGTTAGAATATTT ATAG ||||| ||||| |||||
 TTT ATAAGA TGC TATC GC /
 T T---- TAT TAT C

GAM164 ACATCCATTTTAAGTATTA 150 TTTTAGATA 499 C TTA AAA- TC GTTTA
 TATTAATTTAATCAATGT AAAATATAA ACATC ATTT AGTATTATATT ATTTAA AAT T
 TTATTTTAGTTTTAGAT TATT ||||| ||||| |||||
 AAAAAATATAATATTATGAG TGTAG TGAG TTATAATATAA TAGATT TTG /
 TCGATGT C TA- AAAA TT ATTTT

GAM165 ATTTTATTACCGTGTGGAT 151 TACCGTGTGG 500 TT G G ATAAA C TCCAT-- A
 G
 ATAAAAGTCCTTGATCCATT GATATAAAAG ATTTTA ACC TGTGG AT AGTC TTGA TG
 TCTG A
 GATCTGGAACGGGCATCTC TCCT ||||| ||||| ||||| |||||
 CATTAAAGACTAGATGCCAC TAAAAT TGG GCACC TA TCAG AATT AC GGGC A
 GGGGTTTAAAT T- G G GA--- - TACCTCT - A

GAM166 CTATCGGTTACTATTTATT 152 GTTTACTATT 501 C T TTAT G A
 GATAACGCAGATGTTGAGT TATTGATAAC CTAT GG TTACTAT TGATAAC CAG T
 TGTCATCCATGGTAATCCAT GCAG ||||| ||||| |||||
 AG GATA CC AATGGTA ACTGTTG GTT G
 - T CCT- A T

GAM167 GTACATGTGAAAATAGTCAT 153 CATGTGAAAA 502 CA- T- TCA - GAT AA AAAGT
 CT

ATTCCTGATTAGGATAATCA TAACAA A	TAGTCATATT	GTA TGTGAAAA AG TATT CCT TAGGAT TC
AAGTTAACAACTACTTGT ACGGACGATCTTATTAAGGT /	CCTG	
AGTACATCTTTTTCATAA TTTAC		CAT ATACTTTT TC ATGA GGA ATTCTA AG ATTGTT
	TTA	TT TAC T ATT GC GC-- TC
GAM168 TGAAGAACATATTAATTCA 154	TGAATACAAC 503	AACATATTAA GA AAAAT
GATCTAAAAAACATATAT	GAATACTTCA	TGAAG ATTCA TCTAA A
TAGAATGAATACAACGAATA CTTCA		
	ACTTC TAAGT AGATT	C
	ATAAGCAACA A-	ATATA
GAM169 CAGCTACTTCTACCCAATCA 155	TTAATTGGTT 504	TC CAA GTAT T TTT--- --
TA		
CCAGGCAATAATGTATTT CC TTGGCG T	TAATCGTTA	CAA ACCAGG TAAAT TTTATTTT AATAAAC
ATTTTAATAAACCTTCCTT GGCGTATTCTGTTAATTGG AATTGT T	TTAA	
TTTAATCGTTTATTAAAGTA AAATTTAACGGTTTGACG CTAATAGTTG	GTT TGGTTC ATTTA AAATGAAA TTATTTG GG	
	-- A-- --- -	CTAATTT TT TC
GAM170 TTGCAAGTTCTGTTCTGA 156	TTCCACAGAG 505	C TC T A- CG TCC
GAGTAAACGAATCCCTGTT	CACTAATTTC	TTG AAGTT TGTT CTG GAGTAAA AA C
TATTTTATTCCACAGAGCAC TAATTCCAA	CAA	
	AAC TTAA ACGA GAC CTTATTT TT T	
	C TC - AC TA TTG	
GAM171 CCGCTTCTATTAACCCCCGC 157	CCGCAGCACA 506	C-- CTCCCG-- AC A AA
AGCACAAATGAACCAACACGG	ATGAACCAAC	CCGCTT TATTTA CAGC AATGACCC C
GCTCGTTCGTTGATCACAT	ACGG	
TTAGATAAAAAGGCGG	GGCGGA ATAGAT GTTG TTGCT GG A	
	AAA TTACACTA CT C GC	
GAM172 GTTAGGCAATGTATTTAT 158	CAATGTATAT 507	- CA TATTTAT
AAATTTAAAACATATT CT		
CCATCGTCAAATTTAAAACA TATTGAACTTAACCTCAGA TGATGGTGCATCCATAGC	TTATCCATCG TCAA	GTAA GG ATGTA CCATCGTC TGAA T
	CGAT CC TACGT GGTAGTAG	
	A -- ----- CA	ACTT A
GAM173 ACTTTTATGAAGAGCCGCG 159	TGAAGAGCCG 508	TAT A CG A-- C
TTTAACAAATGCTTATTGTC	CGTTAACAA ACTTTT GA GAGC CGTTT ACAATG T	
TCCGAACGTAGCTCTCTAA	TGCT	

GAGT TGAGAA CT CTCG GCAAG TGTTAT /
 TT- - AT CCTC T

GAM174 TCGTCATATCCGTATAGTC 160 TTGAATTAC 509 TATCCC --- CA--- A
 AGAGATAGGAATCTTGAATT TAATCTTGCCTCGTCA GTA TAGT GAGAT G
 TACTAATCTGCCCTTGTG CTTG ||||| III III |||||
 GCGG GGCGGT CGT ATCA TTCTA G
 TGTTCC TCTA TTTAAG A

GAM175 CGCCTAATAGCTTGCAG 161 TCCAATCGCA 510 --- - CA- TGT
 ATATGTTTCTTATCCAATC TAGCTATAAA CGCCTA ATAGCT TGCGG GATA T
 GCATAGCTATAAAATAGGCG ATAG ||||| ||||| |||||
 GCGGAT TATCGA ACGCT CTAT T
 AAAA T AAC TCT

GAM176 GCGCACTAATTGCCAATATA 162 TTGATGTTT 511 C TAATT T A AAGAA
 ATAACAAAGAATATAAGTGT GGCTGTTGT GCG AC GCCAA ATA TAACA T
 TGATGTTTGGCTGCTTGTA ACGC ||| ||||| |||||
 CGC CGC TG CGGTT TGT GTTGT /
 A TTCGT T A GAATA

GAM177 AATACGAGTTATTTTCGT 163 AGTTATATT 512 AG-- C-- TATCCAT TTCA
 CTATCCATTGTTCACATT TCGTCTATCC AATACG TTATATT GTC TGT C
 ACATATTCGACAAAAAGAT ATTG ||||| ||||||| III |||
 ATAAAATGCGTATT TTATGC AATATAGAA CAG ACA /
 GTAA AAA CTTTAT- TTTA

GAM178 GCCGATCTCTGAATGGATAC 164 TCTCTGAATG 513 ATCTCT - ACTA TA T- TA
 TAGTTTCTAAGTTCTAATG GATACTAGTT GCCG GAAT GGAT GTTTTC AG TC A
 TGATTCTCTGAAAATGTAAA TTCT ||| ||||| ||||| II |||
 TCCAATTCCCTCCGGC CGGC CTTA CCTA TAAAAG TC AG T
 CTC--- A AATG TC TT TG

GAM179 GCGGTATAATTAGTTTTT 165 TGTGATGGAA 514 GG T - C ATT T
 CTCTCAATTCTATTTTAG AAATGACTAA GC TA AATTAGTT TTTTCT TCA TCTA T
 ATGTGATGGAAAAATGACTA TTTT ||| ||||| ||||| III
 ATTTGTAGC CG GT TTAATCAG AAAAAGG AGT AGAT T
 AT T T T GT- T

GAM180 GTGGAAACGATAACTGTATT 166 GATAACTGTA 515 ACG-- A TTAATCAC- CA
 TTTAACGTCAGCGGCAT TTTTAATCA GTGGAA ATA CTGTATT GT G
 CCAAATTAAATATAGGTATA CGTC ||||| III ||||| II
 TTTATTCCAC CACCTT TAT GATATAAA CG /

ATTTA G TTAAATCTA GC

GAM181 AAATTCACTGTGAAACTTGT 167 TTCATGTGAA 516 T T CTTT TTCCCTACAAACT TAA
CCTTCCTACAAACTTGATA ACTTTGTCCT AAAT CATG GAAA GTCCT TGA C
ACTATTCATCGGGACTTAT TTCC ||||| ||||| ||||| |||||
TTCTATGTGTTT TTTG GTAT CTTT CAGGG ACT T
T - ATT- CT----- TTA

GAM182 AATTGTTCGGCTATACTCGA 168 TACTCGATGC 517 TC ATA CG AG T A T AGA
TGCAGTGAGTCTTGCATTCA GTGAGTCTTG AATTGT GGCT CTCGATG TG TCT GC TTCA
CTCC T
CTCCAGATATCGGAGTGAGG CATT ||||| ||||| ||||| ||||| |||||
GTCAGATCCAAATATTGAGA TTAATA CCGA GAGTTAT AC AGA TG GAGT GAGG /
AGCCTTATAATT TT A-- AA CT C G - CTA

GAM183 ACCGTCGATACTGCAGAGAT 169 TCGATACTGC 518 T C C- TC T TA
TCTAGTAATAATTTCTTAA AGAGATTCTA ACCG CGATA TG AGAGAT TAG AA A
GATCTTAACGATATTGTCG GTAA ||||| ||||| ||||| |||||
GT TGGC GTTAT GC TTTCTA ATT TT /
T A AA GA C TT

GAM184 AGGAGATGGAGAATTTTTT 170 TGGAGAATT 519 A - TTTTTTC TT T AT
CAGTTGTTGATGATATTCC TTTTCAGTTG AGGAG TGGA GAA AGTTGT GA G A
TCTATAACTACTTCTTCTTC TTTG ||||| ||||| ||||| |||||
CACTCCCT TCCTT ACCT CTT TCAATA CT C /
C T CTTCA-- T- C TT

GAM185 GGAGAAAGAATTACATTCTC 171 TTGTTTCATC 520 A T T AG----- AATAT CG
TCGT
TGGAGAAGCCATAAATATAT ATATGGAATC ATT CAT C CTGGAGA CCATA ATGA
TGATAGAG C
GACGTGATAGAGTCGTCAAT TTTT ||||| ||||| ||||| |||||
TCCTTATTAGTCATCATA TAA GTG G GATCTCT GGTAT TACT ATTATTC
A
TGGAACCTTTCATGTCCTC - T - GTTACTTTCAA AC--- TG CTTA
TAGGTGTGAATTCTATTTCC

GAM186 GGATAAGTTATTCATGACGG 172 TAAGTTATTC 521 T AT--- - - CATAA CGG GAA
TAGCATAATGTCTCGGATGA ATGACGGTAG GGA AAGTT TCAT GAC GGTAG TGTCT AT
A
AAAGAATAATGGATAGCAAA CATA ||||| ||||| ||||| |||||
CTGCCAGTCGATGATATTAA CCT TTCAA AGTA CTG CCGTC ATAGG TA /
ACTTTCC - ATTAT G A AACG TAA AGA

GAM187 GTATTCTTGACTTGAATA 173 CACTAGTTA 522 TTCT C GAAT TCC CAC
CTATCCGATCACAAATATCC GATTCAACAT GTAT TTGA TT ACTA GAT A
ACTAGTTAGATTCAACATA AC |||| |||| |||| ||||
C CATA AACT AG TGAT CTA /
C--- T ATT- CAC TAA

GAM188 GTTATCTATAGCATCTACTA 174 TCTATAGCAT 523 TA- CTA AC CAT
ACTGTACATTTTACATCT CTACTAACTG GTTATCTA GCAT CTA TGTA T
AGACCATGTACCTTAGATAA TACA |||||| |||| |||| ||||
T TAATAGAT TGTA GAT ACAT /
TCCA CCA CT TTT

GAM189 TCCTTACCATTCTAAAAT 175 TGTAAGCTCT 524 TTTCTAA- T CCATG TCTTTTG
A ATGA
AGTCGTTGCCATGTAAGCTC TTTTGAAATT ACCA AATAG CGTTG TAAGC AAATTG
TGGAGT C
TTTTGAAATTGATGGAGTA GATG |||| |||| |||| |||| ||||
TGACCTACCACTTCAGCAGT TGGT TTATC GCAAT GTTTG TTTGAC ACTTCA
C TTGTTGATAGTTAACGCTA
TTAACCTTTGGTGACCGGA TTTTCAA - TGATA ----- G CCAT

GAM190 TAGTGGCTTCTAATCAGATG 176 ATATCATTGA 525 TCTAAT T TAATAAATATTTAAA
ATCT A
TTCTAATAAATATTTAAAA CCATTTGTCT TAGTGGCT CAGATG TC AATGA
TGATT A
ATGAATCTGATTAAAAATC GGCT ||||| ||||| ||||| |||||
ATATCATTGACCATTGTCT GTCATCGG GTTAC AG TTACT ACTAA /
GGCTACTG TCT--- C ----- AT-- A

GAM191 TTGATTTCTTCTAATACT 177 TGGGAATAAA 526 T TC A C ATAT TC A A TC
ATATATTCTCTCGAAGAAG ATACTACTGT TTGATT CTT TA TA TAT TTCTC GA GA GT T
TTCTGCACATCATCTGGGA TGAG ||||| ||||| ||||| |||||
ATAAAATACTACTGTTGAGT GACTAAA GAG GT AT ATA AAGGG CT CT CA T
AAATCAG T TT C C AAAT T- A A CG

GAM192 AGGTATCGGTCTACTGAA 178 TAGCTTCTAC 527 TAT TCTCT AATCTA TC
TCTACTAACATGTCTCGTAT AGTCTTCGT AGG CGG ACTG CTAACATG T
GTTAGCTTCTACAGTCTTC TTCC ||||| |||||
GTTTCCT TCC GCT TGAC GATTGTAT /
TTT TTC-- ATCTTC GC

GAM193 CGTCATTATTTCAGCAGCC 179 TGAGAAAAGT 528 ATTATT CA- --- T A
TCTCTACCAGAAGGTTGAGA GTGTTCTGAA CGTC TTCAG GC C TCTC ACC G
AAAGTGTGTTCTGAATCGCA TCGC ||||| ||||| |||||

CGACG GCAG AAGTC TG G AGAG TGG A
 CACGCT TTG T AAA T A

GAM194 GGGTAGGATATAGTTCA 180 TAGGATATAG 529 ----- TTTC AACAT AT--
 CATTTC
 TAATAGGAACATGATATTT TTTCATAATA T GTAGGATATAG ATAATAGG GAT
 TTTTGTA C A
 TTGTACCATTCAACCAA GGAA | ||||||| ||||| ||| |||||
 GTATAGAAATGCAAATCTAT A CATTATGTT TATTATCT CTA AAAGATATG
 C
 ATCTATTATTTGTATTTA ATCTAC T--- ATAT- AACGT AACAAC
 CCATCTAACCC

GAM195 GAATAGTTACATTTGATTCA 181 TATTACACAC 530 CATT ATCTTCG TTT TC ACTAT
 CC A AT
 TCTTCGATGTTAATGTTCC GGAACGTTA GTTA TGATTC ATG AATGTTCC TG AT
 CC ACGTG A
 TCTGACTATATCCCCAACGT TAAC ||||| ||||| ||||| ||||| |||||
 GATAATACGCGTAGGTTATT CAAT ATTAAG TAT TTGCAAGG AC TA GG
 TGCGC A
 ACACACGGAACGTTATAAC T--- ACATCAA --- C- ACAT- TT A AT
 TACAGAATTATTAAC TATT

GAM196 GCTACCAAGGCGAACAAACAA 182 TAACACGCTT 531 C - C-- ACA A- CCTGATC
 AGCGATTATTGTTTACCTG CTGTTCTCAT GCTA CA AGG GAACA AAGCG TTATTGTTTA
 C
 ATCCCATAATATGGAACAAT CTAT ||||| ||||| ||||| |||||
 AACACGCTCTGTTCTCATC TGAT GT TCT CTTGT TTCGC AATAACAAGGT /
 TATGATAGT A A ACT C-- AC ATAATAC

GAM197 TCAGGCATTCGTAATATGA 183 AGGCATTCG 532 G -- TATTCTTCC-- CA
 TATTCTCCTTAAGCAAAT TAATATGATA TCAGGCATTTC TAAT ATGA TTTAAG A
 CCTTAAGTACATTACACCT TTCT ||||| ||||| |||||
 CGTCGTTAAGAAGTGTCTG AGTCTGTGAAG ATTG TGCT GAATTC A
 A CT CCACACTTACAT CT

GAM198 AAGAATATAGAATAATGAT 184 TATAGAAATA 533 AAATA TA TC TCATCG
 AAGTCCATCATCGTGTGTTT ATGATAAGTC AAGAATATAG ATGA AG CA T
 TTGCCTCTTCATAAGAACTA CATC ||||| ||||| |||||
 TATTTTT TTTTATATC TACT TC GT G
 AAGAA TC C- TTTTTT

GAM199 CTTGATAGTTGTTCTAGAT 185 TACTAGGTAG 534 T - - A AAAAT
 ATGAAAATAATCCAACGTA CAAATTGTCT CT GATAGTT GTT CCTAG TATGT A
 CTAGGTAGCAAATTGTCTAG AG ||||| ||||| |||||
 GA CTGTTAA CGA GGATC ATGCA /

T A T - ACCTA

GAM200 TAATATACTTGCCTGTCGTC 186 TTCAATTAT 535 AT TGCG TC TATAC
TTTCTATAGTTCT TAT
GTTCAATTATACGGATTTC ACGGATTCT TA ATACT TGCGTCGT AATT GGA
CTGT A
TATAGTTCTCTGTTATATAA ATAG ||||| ||||| ||||| |||||
TACGGTTTCCATCATGATT AT TGTGA ACAGCAGCA TTAG CCT GGCA T
AGACGACGACAATAGTGTTC CT TA-- GA TACTA TTT----- TAA
TA

GAM201 CGGGACACGGATACTCGTT 187 ACTCGTTAT 536 ACAC - GT--- G - A GGT
ATGACACCAGGCATTGGT GACACCAG GCGG GGAT ACTC TTAT ACAC CAT GGCATT
T
TAACGAATGCCGTGAGTGTA GCAT ||||| ||||| ||||| ||||| |||||
ATAATTGAGAGTCATCCTC CGCT CCTA TGAG AATA TGTG GTG CCGTAA A
GC --- C AGTTT A A - GCA

GAM202 TTTCCTGTTGGACAAATAA 188 TTTCTAGTTC 537 - GGAC AATTC ATC CT
TTGGAATAATTCAAGAAATAA TAATTATTTC TTTC CTGTT AAATAATTGGAAT AGAAATA
GTTT T
TCGTTCTTCTAACATGT AGAA ||||| ||||| ||||| |||||
TTCTAGTTCTAATTATTCA AAAG GATAAG TTTATTAATCTTG TCTTGT CAAA T
GAATAGAGAAA A AC-- A---- A-- TC

GAM203 CGGGATTGTCCGGCATATCA 189 CATCGTATAC 538 - T C C C AGT
TGTAGATAGTTACCGTCTAC TCGACCACAT CT CG GGAT GTC GG ATAT ATGTAGAT T
ATCGTATACTCGACCACATCA ACG ||||| ||||| |||||
CG GC TCTA CAG TC TATG TACATCTG /
A C C A C CCA

GAM204 GCCATTATAAAGTGCACGTT 190 TATAAAGTGC 539 ATAAAGTGC AC TC GGAG
TACATATCTACGTTCTGGAG ACGTTTACAT GCCATT CGTT ATA TACGTTCT G
GAGTAAGAACGTGACTATTG ATCT ||||| ||||| |||||
AGACGAATGGC CGGTAA GCAGA TAT GTGCAAGA /
----- GT CA ATGA

GAM205 GCTCTGAAACCAAGGTTT 191 TGAGAAGTCT 540 CT CC GT TC A --- TC
CCAACCGGACTCATTGTCGA TTTTCATTAG GCT TGAAA AAG TT CA CCG GAC A
TCGGTGAGAACGTCTTTCA C ||||| ||||| |||||
TTAGC CGA ACTTT TTC AA GT GGC CTG /
TT -- TG GA - TAG TT

GAM206 AATTCAAGTAAATAGAGAGAT 192 CCGCACTAGC 541 GT--- ATA AG--- C C CC C
T TT

ATCAGCCGCACTAGCATCCC CCTTT AA AG C	ATCCCCTTTC AATA	AATTCA TTAAAGT	AAATAGAGAG TTTATCTCTC	TC AG AG GGCGT ATC TA	CCGCA TAG AT GGAAA
CTTCAATAGTTCTCCCTT TTAAAGGTATCTAATGCGGA TT TC T					
TTTAGAAAACCTCTCTATTTC TTAATGAATT		AATTC	AAA ATTAA	A - T- T T CC	

GAM207 GAACGTAAACGTAGTAGGCCA 193 TGATATACCT 542 C CG - GC- A CTC A
 TACGTCTCAGAATTCTAAAT GTTTTTATTT GAA GTAAA TAG TA CAT CGT AG A
 GATGATATACCTGTTTTAT C C ||||| ||||| ||||| ||||| |||||
 TTC CTT TATTT GTC AT GTA GTA TC T
 - TT C ATA - AA- T

GAM208 TATTAACGTATCGCATTAAAT 194 TAACGTATCG 543 T TATCGCATTAAACT TAGCGA-
 C C ACTGTTTCTTAGCGAATGA CATTAATACT TA TAACG GTTTTCT ATGATG AGA C
 TGCAGACCCTTCTACGTCAT GTTT ||||| ||||| ||||| |||||
 CAAAAATAGAAAACTCGTTA AT ATTGC CAAAAGA TACTGC TCT C
 TTA T T----- TAAAAAC A T

GAM209 TCAAAGACTAGACATTACC 195 ACTAGACATT 544 GAC- CATTACCA TGCT
 ATGGGATGCTAATATCCCCA TACCATGGGA TCAAA TAGA TGGGA A
 AACATACATCTATAAATTG TGCT ||||| ||||| |||||
 A AGTTT ATCT ACCCT /
 AAAT ACATACAA- TATA

GAM210 ATGTATAGATTGTTTCAGT 196 TAGATTGTTT 545 - TCA- --- A G
 GAGATGATTATTAGATTAA TCAGTGAGAT ATGTA TAGATTGTTT GTGA GATG TTATTA A
 TAGCATCTCGTTCACGTTG GATT ||||| ||||| |||||
 AACAGTTTATTGCGT TGCCT ATTGACAAG CACT CTAC GATAAT T
 T TTTG TGCT - T

GAM211 TAATGACGCATATTCTACTC 197 ACGCATATT 546 G C AT TACTC- T TAG ATA
 TTGGAATTAAAGTTTGAT TACTCTTGGAA TAAT ACG AT TC TTGGAA TAA TTTG T
 ATTAGTAAAAAATTATTTC ATTA ||||| ||||| |||||
 TAAAATTGATCATCGTAA ATTA TGC TA AG AATCTT ATT AAAAT /
 TTA A - CT TTTTAA T TAA GAT

GAM212 TAATGGCGGAAACTTTTA 198 TTCGTGTTCC 547 GC- A TTTTT GTTATAT
 GAAATGTTATATATAAAAGA AAACATTA TAATG GGAA AC AGAAAT A
 ATTTTTCGTGTCCAAACA ||||| ||||| |||||
 TTA ATTAC CCTT TG TTTTTA /
 AAA G CT--- AGAAAAT

GAM213 TATATAATCTTTCATCTT 199 TATAATCTT 548 -- TTTC CT TG CCT CG T
 GTGAGTACCCCTGGATACGAA TTCACTTTGT TATAT AATCTT AT TG AGTAC GGATA AAA A
 ATAAATTATTATCCGTATT GAGT ||||| ||||| ||||| ||||| |||||
 TCCATAATAAGGTTAGTAT ATATG TTGGAA TA AC TTATG CCTAT TTT A
 A AT --- AT CT --- TA A

GAM214 AGATACTATACCGTTGTGTC 200 CGTTGTGTCT 549 TATACCGTT CT ACCG- AT
 TACAACCGCTACATAATCGT ACAACCGCTA AGATAC GTGT ACA CTAC A
 AGATTCATGTTAACACTCTA CATA ||||| ||||| |||||
 CGTATCT TCTATG CACA TGT GATG A
 CATCT--- AT ACTTA CT

GAM215 AGCGAGTGCTCTTCTTAG 201 TAGGTGCTGA 550 CT ----- GG A
 CGGGCTTAAAGACTGCTTA AATAACCACA AGCGAGTG TCTTCT TTAGC GCTTAAAG
 C
 GGTGCTGAAATAACCACATC TCTG ||||||| ||||| ||||| |||||
 TGGAAAGGCTTACTCGCT TCGCTCAT GGAAGG AGTCG TGGATTC T
 TC TCTACACCAATAA -- G

GAM216 GAAGAGATAGATACGTGATT 202 TACGTAACCG 551 GATAGA ATTAATACATTTATAT AC
 AATACATTTATATCCAACAT AATCTTC GAAGA TACGTG CCA A
 ATGGTACGTAACCGAATCTT ||||| ||||| |||
 C
 CTTCT ATGCAT GGT /
 AAGCCA ----- AT

GAM217 TGTCTTAGAAGGAGTGT 203 TAGAAGGAGT 552 TCT A T--- CAAA
 CTGGCAAAGAACATACCAAG GTTTTCTTGG TG TAG AGGAGTGT 203 CTTGG A
 TGCTTAAATATTCCTACTAC CAAA ||| ||||| |||||
 TTCA AC ATC TCTTATAAA GAACC G
 TTC A TTCTGT ATAA

GAM218 TACTGAATCCGCCCTAACCGT 204 GGATAATTTA 553 AA- TAAGC- - CT--- A
 GTTCTTCTGCATGTGCGGAT ACTACTATAT TACTG TCCGCC GT GTT TCTGC T
 AATTTAACTACTATATTGGC TGGC ||||| ||||| |||||
 GGAGGACGGTA ATGGC AGGCGG CA CAA AGGCG G
 AGG TTATAT T TTTAAT T

GAM219 AATATTAGTTATTCATAA 205 TATTTAGTTT 554 GTT C T TAA C ATAG
 TGTTAAGCATATCCTGAATA ATTCTATAATG AATATTAA T ATT ATAA GT GCATATC TGA T
 GTAAAGTTAGATGTGTCATA TTAA ||||| | ||||| |||
 CTTGTAGTAGTTAGATATT TTATAGAT A TGA TGTT CA TGTGTAG ATT /
 TG - T - TAC - GAAA

GAM220 AGGATGAGTACATTCACAG 206 TGAAATAGCT 555 TG ACATTCAC ACT ATTG ATGT
 A
 AAACACTAGCATTGTTCAAT CGTTCTATT AGGA AGT AGAAC AGC TTCA
 GCTCTTAC T
 GTGCTCTTACATGGGTAAG TGTT ||||| ||||| ||||| |||||
 GAGTTGAAATAGCTCGTTTC TCTT TTA TCTTG TCG AAGT TGAGGAATG G
 TATTGTTCT GT ----- C-- ATA- --- G

GAM221 GATGGCGGCGTCGTCGTTT 207 AGATAATATC 556 G - TC C TTTG--- TTA
 TTGATCTTATTAAATTAG CTGAACAGCA GATG CG GCG GT GTTT ATCTTTA A
 AGATAATATCCTGAACAGCA TTGC ||||| ||||| ||||| |||||
 TTGCTCGGCGTC CTGC GC CGT CG CAAG TAGAGAT /
 G T TA A TCCTATAA TTA

GAM222 GTTATAGCTTCTGCTATT 208 TAGTATAGCG 557 GCTT A T C- TTCAA TT
 TACCCGCTATTCAAATAGA TCGTTAAGA GTTATA TCTGCT TTA AC CGCTAT TAGAC A
 CTTATACGCTAGTATAGCG GCAG ||||| ||||| ||||| |||||
 TCGTTAAGAGCAGATATAT TAGTAT AGACGA AAT TG GCGATA ATCTG T
 GAT AT-- G T CT TG--- CA

GAM223 GTTTTGAAAGTTCCAAATT 209 TTGAAGTTTC 558 T AA TTCAA T- A TG
 TTGATAATATAGTCTAGATG CAAATTTGA GTT TTG GT ATTTTGATAA AT GTCTAGA G
 GAATTTAGACCATCTTGT TAAT ||||| ||||| ||||| |||||
 CAAAATCGTTACCGACAAC CAA AGC CA TAAA ACTGTT TA CAGATT A
 C -- TTTGC- TC C TA

GAM224 AGGATCTAGATAATTAATAA 210 TTCTTGTAT 559 --- --- TT T T
 TGATGGGTTTCTATTCTTA TTTGGCATAT AGGAT CTAG ATAA AATAA GATGGG T
 TTCTTGTATTTGGCATAT CCT ||||| ||||| ||||| |||||
 CCT TCCTA GGTT TGTT TTATT TTATCT /
 TAC TTA TC C T

GAM225 CAGAGTTGGGATAGTATTT 211 TAGTATTTT 560 - - T T T- C TATTATAT G TC
 T
 TCTAACGTGGTATTATATT CTAACGTCGG CAGA GTTGG GATAG ATTT TC AACGT GG
 TATTA GA TACGT C
 ATTAGGATCTACGTTCATAT TATT ||||| ||||| ||||| |||||
 GTATCATAATATTAATCATC GTCT CGATT CTATC TAAA AG TTGCA CC ATAAT CT
 ATGTA A
 CACGTTTGATAAATCTATC T T - T TT - TACTAATT A -- T
 TTTAGCTTCTG

GAM226 CGTATAAATTTAGAAATAA 212 AATTTAGAA 561 AAA -- TA -- AAT
 CATTAGCGAATTGTTGTGCA ATAACATTAG CGTAT TTTAGAA A ACATTA GCG T

TTGATGTCGTTATTCTGAAA	CGAA						
CAGTATG	GTATG	AAAGTCTT	T	TGTAGT	CGT	G	
	AC-	AT	GC	TA	GTT		
GAM227 TAGAGTTAACAGAGAGATTAGA	213	TGGCTACAAA	562	GTAA--	ATT	ACATTA	A GTC
GTTCGTACATTAAGCAACAT		CTTTCCCTT		TAGA	GAGAG	AGAGTTGT	AGC ACAT T
GTCTCTAAATGTGGCTACAA		TCCA					
ACTTTCCCTTCCACATCA		ATCT	CTTTT	TTTCAAACA	TCG TGTA	C	
TCTA		ACTACAC	CCT	-----	G AAT		
GAM228 GAGTCATTGAAAGCGTCAAT	214	TTTCCGGCTG	563	CG GCGT	-----	T CT	
AGAATATGTCTCTTAACAT		TTGTATATT		GAGTCATT	AA CAATAG	AATA GT C	
TTCCGGCTGTTGTATATT		AAAT					
AATGACTT		TTCAGTAA	TT	GTTGTC	TTAT CA	T	
		AT ATAT		GGCCT	- AT		
GAM229 GACTTGACTAGATCGTCAGT	215	TAGCATCGCT	564	---	---	G T TA	- CGTC T
ATCC							
AGTAATTGTGCATCGTCTA		TTGAGATTCT		ACTTGA	CTA	GATC TCAG AG	AT TTGTGCAT
TATTC GC G							
TTCTGCATCCGCTTCGTCGA		CCAT					
ATAATGTATAGCATCGCTT				TGAAC	GAT	TTAG AGTT TC	TA GATATGTA ATAAG
TG /							
GAGATTCTCCATAGCTATCA				ATC	ACCTC	- - GC C	--- C CTTC
AGTC							
GAM230 ATAATAGTGGCCGGAGAACATC	216	TTCCTCTGGA	565	A G	G AA	A ---	GA TA
ATCATCTGGAAATAGATCTT		GATGACACTA		ATAAT GT	GCCG AG	TCATC TCT	GGAAATA
TCTTCAT A							
CATTAAGTTGTGAGGATATT		CGGC					
TCCTCTGGAGATGACACTAC				TATTA CG	CGGC TC	AGTAG AGG	CCTTTAT AGGAGTG
G							
GGCGGCATTAT			- G	A AC	- TCT	-- TT	
GAM231 GATAATGTTATGACAATAA	217	TATTGTTAA	566	AT	C-----	A TT	--- TAA
TAATCACGTTAGTGACGATA		TCGTTTATA		GATA	GT	TTATGA	AATAATA TCACG AGT
GACGA T							
ATTTTCGTTTCTACTTTC		GATT					
Gtgatattgtttaatcgttt				CTAT	TA	GATATT	TTGTTAT AGTGC TCA TTGCT /
TATAGATTCTATC		CT	TTGCTAAT	-	TT	TCTT	TTT
GAM232 GTTGTGACGTTCCGAT	218	GGAGGGTGGAG	567	T	GATATCAATA	CT A	
ATCAATAACTCTACGAAA		TATCGTCAAT		GTTGTTGACG	TGTTCC	ACT CTACG A	
CGTAGGAGGTGGAGTATCGT		AAT					
CAATAAT		TAATAACTGC	ATGAGG		TGG GATGC /		

T ----- AG A

GAM233 TAGTATTCTGGTAAAATTAT 219 TATCAGATGA 568 A C AT TCTAAATTA
ATTTTGATAGATC TC
CTAAATTATCAGATGATTTT TTTGTATTA AGT TT TGGTAAA TA TCAGATG
GTTGATT T
GTATTAGATCGTTGATTTCT GATC ||||| ||||| ||||| |||||
AAGATTAACCACTTCATCCT TCA AA ACTATT AT AGTCTAC CAATTAG /
CCAACATCTGAATTCTTTA - T CT TTTCTTA-- AACCTCCTACTTCAC AA
TCTTATCATAAACTA

GAM234 ATAAAGTCTGGTATGACTC 220 ACTACCTTTG 569 CT TA ----- TTT A
CTTCTAATATAGTACGGAC TCACCCA ACT ATAAAGT TGG TGAC TCC CTA T
TACCTTGTCACCCAACCTT TTAT ||||| ||| ||| ||| |||
AT TATTCA ACC ACTG AGG GAT /
-- C- TTTCCATC CAT A

GAM235 GCTGAAGTAATTAATTTTC 221 TGAAGTAATT 570 TG - TTTTC C TTT ACTAGTT
TGCCTCGTTTACTACAAC AATTTTCTG GC A AGTAATTAA TGC TCGTT ACTACA T
TAGTTTCATCAATGTAGTG CCTC ||| ||||||| ||| ||| |||
ACGATGTATTGTTAGTTAC TG T TCATTGATT ATG AGCAG TGATGT /
TCTGGT GT C TGTT-- T --- AACTACT

GAM236 GGGTATTAATAATATCTATA 222 ATTACACGTGA 571 AATATCTATATT G A TAAC C
TTTCCAGCGTTAAGTGTAA CGTGGTATCA GGGTATTAAT CCA CGTTA GTG ATTAAA
A
ATAAACAGTTTAATTCAC ATTA ||||| ||| ||| |||
GTGACGTGGTATCAATTAAA CCCGTAATTA GGT GCAGT CAC TAATT G
TAATTAATGCC ATAAATTAACATAT - G T--- T

GAM237 GTTCTAGTACAATTAGACGT 223 TACAATTAGA 572 TAGTAC C TC C AATTTT- C
A
AAGTTCTGCTGGAAATTTC CGTAAGTTCT GTTC AATTAGA GTAAGT TG TTGGG
TTAACG TAA G
TTAACGCTAAAGAGTTAACG GCTT ||| ||||| ||| ||| |||
TTAACGCTAAAGAGTTAACG CAAG TTGATCT CATTAA GC AACCC AATTGC ATT A
TTTACATCTAGTTCTTGAA TTTC-- A T- - ACGTGCT A G
C

GAM238 TGATTTGGTTACATGTAA 224 TACATGTAAT 573 - TTA A TT-TG C
TACATTTGAACCTTTGAT ACATTTGAA TGATT TTGGT CATGT ATACA T AAT
TTTGTATCACATGCGCCGGC CTCT ||||| ||| ||| ||| |||
AGTCA ACTGA GGCG GTACA TATGT A TT /
C C-- C TTT GT C

GAM239 ACTACTATTTAATTTACCA 225 TCGAAAACAA 574 CCAT T -- ---- GAT TTTT--
 CA
 TATCTCGAAAACAAAAATA AAATAGATAT AATTTTA ATC TCGAA AACAAA AATA ATTAT
 GCAGTA A
 GATATTATTTGCAGTACA TATT ||||| ||||| ||||| ||||| |||||
 AACTATTGTTTTATGGT TTAAAAT TAG GGCTT TTGTTT TTAT TGGTA
 TGTTAT /
 TTATATTCCACTTGTCAT T--- C AC CACC ATT TATTTT CA
 TCGGCGATTAAAATTTTA
 TTAGT

GAM240 GAAGAGTAATGTATAGAGGA 226 TGTATAGAGG 575 - AAT-- A CGTTT T
 CGTTTGATTGATCATTTT ACGTTTGAT GAAG AGT GTAT GAGGA TGAT C
 CCTCATATTAGAAACTACTT TCGA ||||| ||||| ||||| |||||
 C CTTC TCA TATA CTCCT ACTA /
 A AAGAT - TTT-- G

GAM241 TCCTAGTTATCACAGACA 227 TTTATCTACA 576 T CAGA CT TTCGT AATT
 GACTAATAATCGTTGCATG GACAGACTAA TCCTAGT TATCTA CAGA AATAA TGCATGA
 T
 AAATTCCTATCATGTACTT TAAT ||||| ||||| ||||| |||||
 TATTCTTGATGGATGTGC AGGATCG GTAGGT GTTT TTATT ATGTACT /
 TAGGA T A-- CT TC-- ATCC

GAM242 AAAGAATTATACTTTCTAT 228 TTTGTACAGA 577 TA T- ATAGCC TC- AA
 AGCCGCAGAACATCTGAAAATC CTAAGTAATT AAAGAAT TACTT TCT GCAGAA TGA A
 TCAAACTTTGTACAGACTA CTTT ||||| ||||| III ||||| III
 AGTAATTCTTT TTTCTTA ATGAA AGA TGTTTT ACT /
 -- TC CA--- CAA CT

GAM243 AAGTAAAGATATTGACTTGG 229 AACATCTTG 578 A TG CTT GTA TG
 ATGGTATTTCTGACAGAAA AAATCTTAC AAGTAAAGATT A GGATG TTTTC A
 ACATCTTGAAATCTTACT TT ||||||| I I ||||| III
 T TTCATTTCTA A T TCTAC AAAAG /
 A GT --- --- AC

GAM244 CCGTTATAATGTCTTGTC 230 TATCCAGAGA 579 - TCGAT TCAA TTC
 GATGATATATTCAACGCTTC TATCTTGTAA CCGTTATAA ATGTCTTG GATATAT CGC C
 CAATTGTGATATATCCAGAG TGG ||||| ||||| ||||| III
 ATATCTTGTAATGG GGTAAATGTT TATAGAGAC CTATATA GTG A
 C ---- ---- TTA

GAM245 TCATCTAATGCCGTAGCCGT 231 TACTTCTTTA 580 T C- GCCGT TAC TACA
 AAGTACGTGGTTACAACAT AAGTACTCGT TCATCTAA GC GTA AAG GTGGTT A
 TAGCTACTCTTAAAGTAC TTTG ||||| ||||| III |||||
 TCGTTTGAGATGA AGTAGGTT TG CAT TTC CATCGA /

T CT GAAAT TT- TTAC

GAM246 TGTGATTGATTCCCACTAAT 232 TCTAAATTG 581 GA CA - GA-- CCAC
GAAGATGCCACATATCCATC GCAGGAAAGT TGTGATT TTCC CT AAT AGATG A
TCTAAATTGGCAGGAAAGT CACA ||||| |||| |||| |||||
CACA AACTG AAGG GG TTA TCTAC /
-- AC C AATC CTAT

GAM247 AATGCTCGAACATTAACAT 233 ATAAATTAT 582 CT C ACATCT CCGT T AA
CTTGACCCTGGTACAATT AATGTTGCC AATG CG AACATTA TGAA TGG AC T
CCGTTCCATAAATTATAAT ATT ||||| ||||| ||||| |||||
GTTGCCATT TTAC GC TTGTAAT ATTT ACC TG T
C- - ----- AAAT T CC

GAM248 ATGGAGATTTCTATTCTCG 234 TCCCTAATAA 583 TTTC T TCCATT ATAT C
TCCATTTAGGATATGCTTT CTTCGTGAAT ATGGAGAT TATTC CG TTAGG GCTTT A
CATAAAGTCCCTAATAACCTT AATG ||||| ||||| |||||
CGTGAATAATGTTCTAT TATCTTG ATAAG GC AATCC TGAAA /
TA-- T TTCAAT C-- T

GAM249 TCTTTTAGCCAGAGATATC 235 GTTTCAGCGT 584 T CCA- T A C-- T
ATAGCCGCTTAGAGATTTC GATTTCCA TCT TTTAG GAGA ATCAT GC GCTC T
AGCGTAGTTCCAACCTAA CCTA ||||| ||||| ||||| |||||
ATAGA AGA AAATC CTTT TAGTG CG TGAG /
T CAAC - - ACTT A

GAM250 TTGCTTCGCGTTAGCCTCT 236 TAGCCTCTGG 585 TTGCGC CT GC A A C
GGCTTTATCAGCCTTGT CTTTTATCA TTGC TTTAGC CTG TTTTT TC GCT
AGAAAAAAATTCAGTTGCTG GCCT ||||| ||||| ||||| |||||
GAATTGCAA AACG AGGTCG GAC AAAAA AG TG T
TTA-- TT TT A A T

GAM251 ACACCAGAAAAGACGGCTG 237 TGAGATCAAC 586 A AAAGAC T - CT TCTAAT
ATAA A
AGATCAACTTATCTAATGG TTTATCTAAT AC CCAGA GGC TGAGA TCAA TTA GGTTC
AACGAAGG G
TTTATAAAACGAAGGAGGCC GGTT ||||| ||||| ||||| |||||
TTCGTTGAAATCTAATTG TG GGTCT CCG ATTTT AGTT AAT CTAAA
TTGCTTCC /
ACTTTACGCCCTGGCGT C ----- C C T- ----- GC-- G

GAM252 TGTGAGAAGTTGCCTCGTT 238 TGGAATAGTT 587 GA-- GC C T T -- TTA---- TT
T

AAGGTCTTCCATTAAATAT	TTTTACTAGT	TGA	AGTTT CT GT AAGG CT TCCAT	AATA
ATATAAACATTTGTGTTTG	AAAG			
TATCTTATTCTGCTTTATG	ATT	TCGAA GA CA TTTT GA AGGTA	TTAT	
TATGTTTGT T				
GAATAGTTTTACTAGTAA	AACG	AT T T T TA	TTTCTGC TC	G
AGCTGCAATTACA				

GAM253 ATAGATGCCATGTTAAAAT 239 GATGCCATGT 588 T AAAAAT- CG- TCGA
 GTCCGCCGTCGACTTTTGG TAAAAATGTC ATAGATGCCA GTT GTC CCG C
 AACGATTGATAAAAGCTGGT CGCC ||||||| ||| |||
 GTTTAT TATTTGTGGT CGA TAG GGT /
 - AAATAGT CAA TTTT

GAM254 ATAGCATCATCTTAGATCA 240 AGCATCATCT 589 GC CTTA C AA- TACCTT
 TTAATTGTTACCTCCCCAA TTAGATCATT ATA ATCAT GAT ATT TTGT C
 TACAACCAAATCATCATGAT AATT ||| |||| ||| |||
 ATAT TAT TAGTA CTA TAA AACAA /
 A- ---- C ACC TAACCC

GAM255 CTTGGCTTATAAAACAA 241 TAAAATACAA 590 AAT----- CCC TT-- C-- CT
 TC
 ATGACATTCCCTTATGTTA ATGACATTCC ATACA GACATT TTATG TAAT TTAAT
 TT T ATCTTAATCTTTCTTAGT CTTA ||||| ||||| ||||| |||
 TATTGAATCGTTACAATTAT TATGT TTGTAG AATAT ATTG AGTTA GA /
 AAAATGATTTTTCCAAA GAATCCAAAAACCTTT TAA TAAC CTA TT TT
 AACCTAAGTGTATTTAAAAT AGATGCCATG

GAM256 TACGACACTGATAAACCGCA 242 ACACTGATAA 591 C T CGCA --- G T
 TTATCTGTGGACATTTAAT ACCGCATTAT TACGA AC GATAAAC TTATCTG TGACATT
 GTTGGTATCTAGATAACAAT CTGT ||||| ||||| ||||| |||
 GTTTATCGTATTGTA ATGTT TG CTATTTG AATAGAT G TTGTA T
 A - TAAC CTAT G A

GAM257 TGTATCCTAACATAATCAA 243 TTTATTGGGT 592 --- C AA- - AG- AAT
 TGAGCCAGGTAATCAAGACA AGTGTGATG TGT ATC TCAACAT TCAATGAG CC GT C
 TCGGATTATTGGGTAGTGT ATTC ||| ||||| ||||| |||
 TGATGATTCCGCA ACG TAG AGTTGTG GGTTATTT GG CA /
 CCT T ATG A CTA GAA

GAM258 GATTTGGCCAAATGTATCCA 244 TAACTAGTGT 593 CC G CATCATAA--- GG ATAA G
 GTAAAC T
 TCATAATCTGGGTTATAAAC AGAAAACAGA GG AAAT TATC TCTG TT AC GGT
 AAGAATATA G
 GGGTGTAAACAAGAATATAT GATA ||| ||||| ||||| ||| |||

GTTTATATTTTAACTAGT CC TTTG ATAG AGAC AA TG TCA TTTTTATATT
 GTAGAAAACAGAGATAGTAA TT - ATAAATGATAG AA GATG A AT--- T
 ATAGATAGTTTCAGATC

GAM259 AGCGAAGCTATCATCGTCCA 245 ATATTATCTA 594 TATCAT CC-- C ATT
 ATATCTCATTCCCTAGAAATA CGTCATTGTT AGCGAAGC CGT AATATTTC C
 TTATCTACGTCAATTGTTTG TTGT ||||| III |||||
 TT TTGTTTTG GCA TTATA AG /
 TTACT- TCTA A ATC

GAM260 GTGGTATTATACTCATGCCT 246 TATTATACTC 595 A AT- TCAT-- A AA--- - G T
 AGTAATAGTCTCTTGCCTT ATGCCTAGTA GTGGT TT AC GCCT GT TAGTCT CTTT CG
 T
 GACGGAAAGCAGACTAGAAA ATAG ||||| II ||||| III ||||| III |||
 TAACAGGCTAAAATGTTCA G TACCA AG TG CGGA CA ATCAGA GAAA GC G
 ACACCAT C ACT TAAAAT - ATAAAG C G A

GAM261 GGCAAATAATTAACTCAGTGA 247 AACGATGTTA 596 TA AATCA AG T AGT
 TAGATTGTTACATACAGTA CCAATCGTTT GGCAAA ATT GTGAT ATTGTTTACA AC A
 TGTCGTTGTAAACGATGTT GCT ||||| III ||||| III ||||| II
 ACCAACGTTTGCT TCGTTT TAA CATTG TAGCAAATGT TG T
 GC C--- -- T CTG

GAM262 GGAATTTGACAATTCTCTT 248 AGTGAAAAGA 597 A - TTC----- GA C A
 TGAGCCGATAGTATCAGTGA ATGAAACTT GG ATTT TGACAA TCTTT GC GAT G
 AAAGAATGTAAACTTGTCA TGTC ||||| III ||||| III ||||| III
 TAAGTACC CC TGAA ACTGTT AGAAA TG CTA /
 A T TCAAATGTA AG A T

GAM263 ATATTACGCAGCAAGCATAA 249 TTAGGTTGT 598 A --- T A-- TA
 CCAGCATAATCTGTCTTAGG TCATTGTCGT ATATTACGC GCAA GCA AACC GCA A
 TTTGTTCATTGTCGTGTT GTGG ||||| III ||||| III ||||| III
 GT TGTGGTGTG TGTT TGT TTGG TGT /
 C ACT - ATTC CT

GAM264 GATAAAAATGTAGTGTATT 250 TATAGTGTAA 599 - GTAATT TAT AA ATGC TT
 TCG TG
 GTTATATAGTGTAAACACGAA CACGAATGCA ATGTAGT GTTA AGTGT CACGA AG
 TGGGAGTAT TTG C
 TGCAAGTTGGGAGTATTCGT GTTT ||||| III ||||| III ||||| III
 TGTGCTACAAATATTTCC AAC / TATATTA CGAT TTACG GTGCT TC ACCTTTATA
 ATTCTCGTGGCATTTTAG G AAATAT TT- -- --- TT TA- AT
 CTATAAAATTATATGGGGTT GTC

GAM265 TTTTATCGTTTATCTATTG 251 TTTATCTATT 600 C TT T T - T TAA
 ATGGTGTATGAACATAATTAA GATGGGTGTAT TTTAT GT TA CTATTGA GGT GTA GAAC T
 CGTTCTACAACCTTTAATAG GAAC |||||| ||| ||||| |||||
 TGTGCGCTGTAAAAA AAAATG CG GT GATAATT TCA CAT CTTG T
 T CT - T A - CAT

GAM266 TATTGGATTGTATTTTAT 252 TAAAATGCTA 601 TT T T T T - A ATT
 TTTATATTTATATTTATA ATGTCAAGTT TATTGGA GTA ATTT AT TTA TATTTAT TTTTAT T
 TTTTGTAATAAGAATAAAAT TATT |||||| ||| ||||| |||||
 GCTAACGTCAAGTTATTCC ATAACCT TAT TGAA TG AAT GTAAAATA AGAATA T
 AATA -- T C T C - ATG

GAM267 TGTAAATTTACTAGATCGT 253 TTCCGTAGTC 602 A TACTA GT TC TA T
 CATGGGTCATAGAATTATA CATGGATCCA TGTAA TTT GATC CATGGG A GAATT A
 GGTCCGTAGTCCATGGATC AACT |||||| ||| ||||| I |||||
 CAAACTAGCA ACGAT AAA CTAG GTACCT T CTTGG T
 C C--- -- GA GC A

GAM268 GGAGTATTCCAAGAGTTTA 254 AAGAGTTTTA 603 A- CAA - TT- A----- AT
 GTTGTCTAGTATTAACAAG GTTGTCTAGT GG GTATTC GAGTTT TAG GTCT GT T
 AGAAGAGATTCAACAGACT ATTT || ||||| ||||| ||||| |||
 GTTTATGAACTCGAATGCCG CC CGTAAG CTCAAG ATT CAGA CA /
 CC --- T TGT CAACTTAGAGAAGAGAA AT

GAM269 GTTTCTAAAGATGTCATTA 255 TGAATGGATT 604 T A CATTAAACCCCTCGATC TG
 TATCA C TTA
 AACCCCTCGATCATGAATGGA TATCATCATC TT TCTA AGATGT A AATGGATT TCAT
 GTTT T
 TTTATCATCATCGTTTTAT GTTT || ||||| ||||| | ||||| |||||
 GTTGGACATGAGCTTAGTCC AG AGAT TCTACA T TTGCCTGA AGTA CAGG
 /
 GTTGTCCACATCTATAGAC C A CC----- GT TTCG- - TTG
 GAC

GAM270 TCGGATGACCATAATTAT 256 GATGACCATA 605 GAT -- A T TATTA
 TTTCAGTTTATTATACGCA TATTTATTT TCG GACC ATATATT TTT CAGTTT T
 TAAATTGAAAAAAATATGTT CAGT ||| ||||| |||||
 AGGTTTACGA AGC TTGG TGTATAAA AAA GTTAAA A
 AT- AT - T TACGC

GAM271 TATAAGGTGATTGGAATGGG 257 TAAGGTGATT 606 AG TT ATGG TACAACA
 ATAAAATACAACAATTATATT GGAATGGGAT TATA GTGA GGA GATAAA A
 TTTTATCATATCCTCACGC AAAT ||| ||||| |||||
 TATA ATAT CACT CCT CTATTT T
 CG T- ATA- TTTATAT

GAM272 ATTCGCGAAGCGACGTCATT 258 ACGTCATTTA 607 G CGTC AATAAA TTT
 TAATAAAAAAGTATTTTT ATAAAAAAAG ATTCCGCAA CGA ATTT AAAAGTATT T
 TTTAATATTTTCAAAATA TATT ||||| ||| |||||
 TCGTCGGAT TAGGCCTT GCT TAAA TTTTATAA /
 - A--- CAC--- TTT

GAM273 TATCTGGCAATAACTAATT 259 TGGCAATAAC 608 CT AACT G A -- A T
 GAGATATTGATGCGAGTCG TAATTGAGAT TAT TGGCAAT AATT AG TATT GATGCG
 GTTCGGTA G
 GTATGCATATCGGACACGTA ATTG ||| ||||| ||||| ||||| |||||
 TCCGAGTACTGATTCCAAGT ATG ACCGTTG TTAG TC ATGA CTATGC CAGGCTAT C
 TGCCAGAGTA AG AAC C -- GC A A

GAM274 ATAGATATGATAACAGGAAT 260 GATATGATAA 609 - A ATAA A TA- T AAATA
 AACATCTTAGGTTAAAT CAGGAATAAC ATAGAT ATGAT ACAGGA C TCTT GGT TA A
 AATTATACACCACTAGGA ATCT ||||| ||||| ||||| |||||
 GTCTTGTACCGTCATCTAT TATCTA TGCTA TGTTCT GAGGA CCA AT /
 C C ---- TGA C ATATT

GAM275 GAGTCGCCATATTTATTTC 261 CGTCCATATT 610 TC CATATT - CC ----- A
 TGAGGCCTAATAGACCTCTG TTATTCTGAG GAG GTC TTATTCT GAGG TA ATAG C
 TACATAAAATATTCCCTCTAG GCCT ||| ||| ||||| ||||| |||||
 AATAGTAGACATCTC CTC CAG GATAAGA CTCC AT TGTC C
 TA AT---- T TT AAAATACA T

GAM276 GGATATTCTTGATACATTCT 262 TATGGCAAAT 611 T T T TTCTTTT A TACAT- -----
 - CA
 TTTTATACAGTGAATTGCAT CTGCAATCAC ATA TCT GA ACA ATACAGTGA TTGCA CC
 GATA G
 ACATCCGATACAGCATTATC TGTA ||| ||| ||| ||||| ||||| |||||
 CATATATGGCAAATCTGCAA TGT AGA TT TGT TATGTCACT AACGT GG CTAT
 C
 TCACTGTATTGTTTTAGAT T T T ----- - CTAAC TATATAC TA
 TGTCC

GAM277 GTAGTCACCGTAAATTTATC 263 CACCGTAAAT 612 A AA T TCACC A A
 ACCAGAAATACTAATATCTA TTATCACCAG GT GTCACCGT AT TA AGA AT C
 TCTTATGTCCATGGTGATC AAAT ||| ||||| ||| |||||
 AC CA TAGTGGTA TG AT TCT TA T
 C CC T TTCTA A A

GAM278 TATCTATCAGATTATTATGT 264 TAAGGTACTT 613 ----- AT AT-- GG - - ATAAA
 GTTATAAGGTACTTTCTC TTTCTCATAA TATCTATCA GATT TATGTGTT AA TACT TTTT
 CTCATA C

ATAATAAACTAGAGTATGAG TAAGATAGTGTTCACAAA GAGTAT / CATATAATCTAAAATTGAT GGATG	TAAA	 GTAGGTAGT CTAA ATACAA TT GTGA AGAA
	TAAAAT	-- AACT TT T T GAGAT
GAM279 AAAGTATTGGTAATCGTGTC 265	TTTGTCTAT 614	- TAATCGT CA TA TAAAAAG
TTATTTTT TA ATATTAGTATAAAAAGTGAT ACAAAAT T	CAACTACCTA	AAAGTATT GG GT TAT GTA TGAT
TTATTTTACAAAATTATGT ATTTTGTCTATCAACTACC TATAAAACTTCCAAACT TT	TAAA	 TTTCATAA CC CA ATA CAT ACTA TGTTTTA / A TTT--- AA TC CA---- TCT---- TG
GAM280 ATGGCAGATCCAATTTGTA 266	ATCCAATTTG 615	CA - AA TAAAA C --- GAA
AAAATCAGCGGTTGAAAGAA TATATTCACGTTATCGTTA GTTAGGCTCAAAGGTATCCC AT	AAAAAAATCA GCGG	ATGG GAT CC TTTG AAT AGCGGT TGAAA T TACC CTA GG AAAC TTG TTGCTA ACTTT / -- T -- TCGGA A TTGC ATA
GAM281 CGTGAAGATATCATTCCCA 267	TCATTTCCCA 616	AA TC CA--- - TT TT
TGTATTTTTTATGATTGT AGCAGTTATGGAAATTTA TCACGCG	TGTATTTTT TTAT GCGC CTAT TAAAGG	CGTG GATA ATTTCC TGT AT TT T / ACG TG AG / A- TT TATTTG A TT TA
GAM282 CTTGGTATAATTATCAAAT 268	TGGAATTGGG 617	TTATCAAAATA GA- CG-- C
ACAAGACGTCGCTTTAGCA GCTAAAAGAATAATGGAATT GGGCTCCTTATACCAAG	CTCCTTATAC CAAG GAACCATATT CCTCGG----	CTTGGTATAA CAA CGT CTTTAGA GTT GTA GAAAATC / AAG ATAA G
GAM283 TACCTTATCAAATGATCCTG 269	TATCAAATGA 618	TT- A- G C T CA T TA
TTGGGCATTTCTACATTGA TGACATCCATTAGAATAATT GGGATTGTGGTA	TCCTGTTGGG CATT ATGG TAG TTA TA GAT ACCT AG AG A	TCG ATC AAT AT CTG TG GGG TT TC C / TGT GG A A T AC T TT
GAM284 TCGCTACTTGGTTAGTGTAT 270	TTAATAATTA 619	CTACTT T T C TGA
TATTCAGTATGAAGACCTAT TAATAATTACTTATCTTTG ACGA	CTTATCTTT GACG AGC AGT	GGT AGTG ATTATT AGTA A CTA TCAT TAATAA TTAT G AGTTTT T - - CCA

GAM285 TTTGGTAATCTATTATTAT 271 TATTATTATT 620 CT TATT CTCT- ACCG
TGGCTCTGATCACCGCATCT GGCTCTGATC TTTGGTAAT AT ATTGG GATC C
AGATCTACACCTAATCTATT ACCG ||||| || ||||| AGAACCATTA TA TAATC CTAG A
AATTACCAAGA AT TC-- CACAT ATCT

GAM286 TTTGGTCGATGTAAAATTT 272 TGTAATTT 621 CGA AAATTTT - AAA
TGTGATAAAAATTTAAAAAA TTGTCGATAA TTTGGT TGTA GTCGATAA AAATTAA A
TAACTTAATTATTATTGAT AAAT ||||| ||||| ||||| AAGCCA ACAT TAGTTATT TTTAATT T
CTCGTGTACAACCGAA --- GTGTGCTC A CAA

GAM287 GATTCTCGTCGTACCCACCG 273 TCGTACCCAC 622 T C- CC G T TAA
AGAGCGTGTGCGTAAAACAT CGAGAGCGTG GAT CTCGT GTAC ACCGAGA CGTG GCG A
CGCCATGATTCGGTTGTAC TGCG ||||| ||||| ||||| ||||| CTA GAGCA CATG TGGCTTT GTAC CGC A
ACACGAGATC - CA T- A - TAC

GAM288 CGTATTATACGCATTATAAC 274 TTCGTTGTAT 623 CGCAT T C GTA
TGACAGCGTCGTAATAGAT ATAGTACG CGTATTATA TATAAC GA AGCGTC A
GTTTCGTTGTATATAGTACG ||||| ||||| ||||| GCATGATAT ATGTTG CT TTGTAG /
----- - - ATA

GAM289 GGTAGCAATTATGGAACCTT 275 TAACGGAGAT 624 --- T AAC GGT CATT CAC
GAACAA ATATTGGTCATTATTTTGT TAAAAATATG GGT AGCAATT ATGG TTATATT ATTTTTGT
AG A CACAGGAACAAACTAATACT ACGC ||||| ||||| ||||| ||||| |||
ATAACGGAGATTAAAATAT CCG TTGTTAA TACC AGTATAA TAGAGGCA TC /
GACGCCATAATTGTTAACG CAA - CGC AAAT-- ATA ATAATC
CC

GAM290 GTATCATAATTTCAAAGAT 276 GTTGGTTTT 625 T AAT A- A TTA- TACTTCC
GGTCGTTAGACAATAGTAC GCGACTGCTT GTA CAT TTTC AAG TGTCGT GACAATAG
A TTCCATTATTATTTGTTGT CCGA ||||| ||||| ||||| |||||
TGTTGCGACTGCTTCGAA CAT GTA AAAG TTC GTCAGCG TTGTTGTT T
ATACATGTAC - CAT CC - TTTG TTATTAT

GAM291 TGTTCTCTAGTTACATTA 277 TGTGACACCC 626 TA----- - TTA
ATTAATTTATATGTGAC ATT CATCTGG TGTTCTCTA GTTACAT TAA A
ACCCATTCTGGAGAATA AGAA ||||| ||||| |||||
ATAAGAGGT CAGTGTA ATT A
CTACTTACCCA T TTA

GAM292 CATCTTTACCAACACAAAG 278 TCTTTACCA 627 CT ACACAAA ATATTT TT -
 GATAAT ACA
 GGTGGATATTGTTCATTGG ACACAAAGGG AT TTTACCA GGGTGG G CATTG GAGTT
 AATAC C
 AGTTGATAATAATACACACA TGGA ||||||| ||||| | ||||| |||||
 AAGTATTGGATTACCGGTG TA AGATGGT TCCATC T GTGGC CTTAG TTATG
 /
 GGTTACGACTACCTCAGACT AG CAGAC-- AGCAT- GG A GT--- AAA
 GGTAGAGAATG

GAM293 GTACCGGTGTCGATTCA 279 TGAGGCTACC 628 -- ----- A-- AT
 AGGTATATAAACCTGGGGAT TCGACATACG GTACCGT GTCGA TTCATC AGGT A
 GAGGCTACCTCGACATACGT TGTG ||||||| ||||| ||||| |||||
 GTGC CGTGTGCA CAGCT GAGTAG TCCA T
 TA CCATCG GGG AA

GAM294 TAATTTTTATAAACTAAC 280 TAACATGTTA 629 TT AAAC T A-- G
 TTGTTAATTGAAAAGGGATA CAGAATATAA TAATTT TAT TAACAT GTTA TT A
 ACATGTTACAGAATATAAT ATTAA ||||| ||| ||||| ||||| |||
 TA ATTAAA ATA ATTGTA CAAT GA A
 T- AGAC - AGG A

GAM295 AACACGGCAGAATATGCC 281 TGAGATATT 630 ----- GC----- TACT
 ATATACTTTATTATGGATT TGAGCGCTAA AACACGG CAGAATATC CCATA T
 TGAATGAGATATTCTGAGCG CCTT ||||||| ||||||| |||||
 CTAACCTTATCCGTGTT TTGTGCC GTCTTATAG GGTAT /
 TATTCCAATCGCGA AGTAAGTTA TTAT

GAM296 AGTAGCATA CGGATGCTCGA 282 TGTACAAATT 631 GCA --- - T C ATAT GT GT
 TATT--- GT
 TGTACAAATTGATATGGTCG GATATGGTCG GTA TACGG ATGC TCGA GTA AAATTG G C
 CG CA C
 TCGTATTCA GTCAATGTTAC TCGT ||||| ||||| ||||| ||||| ||||| ||||| |||||
 AGTCGGTGGTCCAATTTTA CAT ATGCC TACG AGCT CAT TTTAAC C G G C GT
 /
 CTTCGACGCATAGTCCCGTA AAC CTGA C T T --- TG TG TGACATT AA
 CAATACT

GAM297 CCCTATTTCAATCCCCATG 283 CATGGAGTAG 632 AT TCAA CCA - TCA T A C
 TA
 TTCCCTCTCAGTCTTCTCA ATGATAGAGG CCCT TT TCC TGTTCC TCT GTCT CTC CAT
 GTC A
 CATCGTCTAATAGACATGGA GGAA ||||| ||| ||||| ||| ||||| |||||
 GTAGATGATAGAGGGGAACA GGGAA AA AGG ACAAGGG AGA TAGA GAG GTA CAG
 /

GAAGGACTATAATCAGGG

CT TATC AAG G TAG T - - AT

GAM298 GAAAAGACGTGGGTACTAAA 284 AAGTTGGCTG 633 - C AA T C CA- A T
GTTGGCTGTCATCTTACCAA TCATCTTACC GAAAAGACGTG GGTATA GT GG TGT TCTT
CCAAT G
TTGCAATTGGAAGAACAAACG AATT ||||||| |||| || |||| |||||
ACCTGCACTAATACCACATG CTTTTTGACCCAT AT CG CC GCA AGAA GGTTA C
TTTTTC A A CA T A ACA - A

GAM299 GTCGTTAAAAGCGCTTCTAT 285 AATTATAGAT 634 C A CT TC CAT
ATCTCTCATTAGCTAGAATT ACGCTATTAA GT GTTAAAGCG TCTATA TCT T
ATAGATACGCTATTAATTAT TTAT |||| |||| |||||
TA TAATT TCGC AGATAT AGA A
T A AT TA TCG

GAM300 TGGTCGTGTAGCGCGATAGA 286 TTAGATATCC 635 C A C AGAGATA T
GATAGTCTAATATTAATTATT GTAACACTAC TGGT GTGT GCG GAT GTCTAATA T
AGATATCCGTAACACTACCA CA |||| |||| |||||
ACCA CACA TGC CTA TAGATTATA
T A - ----- A

GAM301 GACATGGTAAGATTACTGGC 287 TGGTAAGATT 636 T-- G ACTG - TCTAA
TCGTTTCTAACTCCATGAA ACTGGCTCGT GACA GGTAA ATT GC TCGTTT C
TGATGCAAATATTACCCCTT TTTC |||| ||||| |||||
TGTC CTGT CCATT TAA CG AGTAAG /
TTC A AA- T TACCT

GAM302 AAGGGTGGAAATGCGATACAT 288 AAGAATTAT 637 GAATG ACAT C --- ACACA
TGATCTATGTAGTTTAAAAA ATAAATCATT AAGGGTG CGAT TGAT TATGTAG TTTTAAA
CACACGCAAACTTGAAGAA CCAT ||||| |||| |||||
TTTATATAAACATTCCATC TTCCTAC GCTA ACTA ATATATT GAAGTTT G
GATACATCCTT ATA- CCTT A TAA CAAAC

GAM303 ACTGTATGCTCCTAGCGGAG 289 TGTATGCTCC 638 A - A AATCCTTCG T
TTAATCCTCGTTGTTCTA TAGCGGAGTT ACTGT TGCTC CT GCGGAGTT TTGT T
CAAAGTCTCTGACTCCGCG AATC ||||| ||||| |||||
AGAGAGTAACAGT TGACA ATGAG GA CGCCTCAG AACAC
- A G CTCTCTGA- T

GAM304 ATAATTCACTAATAATAATT 290 TCAGTAATAA 639 - A ATAATTC T AAA
CAGTAATGTATATAAAAATG TAATTCACTA ATAATT CAGTA TA AGTAA GTATATAA T
CATTGTATATTTACTCCAAT ATGT ||||| ||||| |||||

ACTACTGTAGTTGT TGTGAA GTCAT AT TCATT TATATGTT /
T C AACC--- - ACG

GAM305 ATAGAGTCTACATTTATATG 291 TCTACATTTA 640 CTACATTT TCT -- AGAT
TTCTCTATCGGTGAGATACA TATGTTCTCT ATAGAGT ATATGT CTATC GGTG A
AATACCTAGATAGTCGCGTA ATCG ||||| ||||| ||||| |||||
TCTTCATCCATTCTAT TATCTTA TATGCG GATAG CCAT /
CCTACTTC CT- AT AAAC

GAM306 ATATCTTCAGTACATCGTT 292 TACAAATAGC 641 T T G C-- A A
GTAAAGTAATTATTATACAA AGTAGTGC ATA CT CA TACAT GTTTGTA AGT A
ATAGCAGTGTAGTGCAGTAT AGTA ||||| ||||| ||||| |||||
TAT GA GT ATGTG TAAACAT TTA T
- C G ACGA A T

GAM307 ATTGCACGAAGTTCTCGGC 293 ATTGTCCCAC 642 C C TTTCAT-- G A AA
TTTAATG TC CG
GGTTTCATGGAGTCATTTC GGAAGTGAAT GTTCTT GG GGT GGA TCATTTCTG TG ACA
ATC CA C
TGATGAAAACATTTAACATGATC CCTT ||||| ||||| ||||| ||||| |||||
TCCACGCAATTGTCGATATT CGAGAA CC CCA CCT AGTGAAGGC AC TGT TAG
GT A
GTCCCACGGAAAGTGAATCCT A A CTCAA CTT A - CC TA---- CT TA
TCAACTCACCAACCAAAGAGC
TCCGTTGCAT
GAM308 CCACATCCTTATTAATAAT 294 TGAGAAAGAC 643 A TT ATAATAA AA TCTAT
AATTTAACAAATCTCTATATC CAGTAGTATT CC CATCC TATTA TTT CAATC A
TATGGTTGAGAAAGACCAAGT GGAT ||||| ||||| ||||| |||||
AGTATTGGATGGG GG GTAGG ATGAT AAA GTTGG /
- TT GACCAG- GA TATCT

GAM309 GAAGGTAGTAATGTTAGTAG 295 TAGTTTATCA 644 GTA TTA A TAT G
ACAATTTTATCTGTAAAAA TATACCTT GAAGGTA ATG GTAGAC ATTTT CTGT A
CAGGAAATAGTTATCATAT ||||| ||||| ||||| |||||
ACCTTT TTTCCAT TAC TATTTG TAAAG GACA A
A-- --- A --- A

GAM310 GCAATACTCTGGTCTCGGA 296 TTCTGGTCTC 645 ACTTC A ----- C
TTAGGCGTCGTTACGTATAT GGATTAGGCG GCAAT TGGTCTCGGATT GG CGT G
ATCCACCAATCCGAGACCAT TCGT ||||| ||||| ||||| |||||
TGATTGC CGTTA ACCAGAGCTAA CC GCA T
GTT-- - ACCTATATAT T

GAM311 GGCTTTTTATCGTTATCG 297 CCTTTTTAT 646 C TT- CG CG - - TCACCTGG

GT	TTTCTACACTCACCTGGT	CGTTATCGGT	GGC TT	TTAT	TTAT	GT	TTTC	TACAC	T
TT	ATAAACGTGTGCGAGACA	TTTC							
CA	AAATAATAATGTAACG		TCG AA	AATA	AATA	CA	AGAG	GTGTG	/
CT		C TGT	AT	AA	C C	CAAATATT			

GAM312 TCATAATATTAGAATATATT 298 TAGAATATAT 647 ATT TATATTTAAAGGA TTA TAT
 TTAAAGGACTTATCGTTATT TTTAAAGGAC TCATAAT AGAA CTTATCG TTA T
 ATATTTTTAACTCGGTGA TTAT ||||| |||| ||||| |||||
 GGTATCTCTTAACCTTCCTC AGTATTA TCTT GAGTGGC AAT T
 GAATTATGA AGC TCAATTCTTCTATG TC- TTT

GAM313 TTCTGAAAGAGATGAGAAC 299 TCTATGGGTC 648 GAAAG A AA CCC
 CTGTAGAGAGACCCTGCGCT CATCTATGAG TTCT AGATG G GCCTGTAGAGAGA T
 TTCTCTATGGGTCCATCTAT AA AAGA TCTAC C TGGGTATCTCTT G
 GAGAA GTA-- --- CGC

GAM314 TTTCTTTCACGATGCATCT 300 ATAAGTGGAC 649 TC- GA- ----- GA CGT
 TATTGAATGACGTTTCTCA ATATAGATGC TTTCTTT AC TGCATCT TATT ATGA T
 TAAGTGGACATATAGATGCA AGAA AAAGAAG TG ACGTAGA GTGA TACT /
 GAAGTAATGAAGAAA TAA AAG TATACAG A- CTT

GAM315 TTTTATAAACATGAAACCA 301 TGTCTAAATG 650 --- AAACCACT- AAA TAATTA G
 T CTGTCTAAATGTAATTATGA TAATTATGAT TTTTATA AACATG GTCT TG TGATCTT
 ATT A CTTG ||||| ||||| |||| |||||
 TCTTGATTTAGATGAAGA TCAGCCTTAGAGGATTTA AAAAGTAT TTGTAT TAGG AT ACTAGAA TAG T
 TAAGTATGTTAATATGAA ACCAGTATGTTAATATGAA AAT GACCAATT AG- TTCCG- G A
 AA

GAM316 ATGTAGTAATCGTTGTCGTG 302 ATGGTTCTT 651 C TG GTGTTCC-- TCC TTCTCC -
 T TTCT
 TTCTGTTCCACTTCTCC CCGTACAACA AT GT TC TGTT TAC AATCAT
 ATAGATATT TCT A
 AATCATATAGATATTTCTT TACT ||| |||| |||| |||||
 TCTATCATGGATAATATTTG TA TA AG ACAA ATG TTGGTA TGTTTATAA AGG /
 TAATGGTTCTTCCGTACAA - GT ATTTGTCAT C-- CCTTTC A T TACT
 CATACTGTTAGATGATATT
 GCGCAT

GAM317 GAATGACTCGTCCCTAATA 303 TGACTCGTCC 652 GA G TAATA AGTAG - TCT
 GGCAGTAGGCTAGTATCTT CTTAATAGGC GAAT CTC TCCCT GGC GCTA GTA T
 TTTACGTAGTAATCGTCGTAGTA AGTA |||| ||||| |||||
 GGGAGAGAATTC CTTA GAG AGGGA CTG TGAT CAT /
 A- - TG--- CTAA- G TTT

GAM318 GAGATTGTATCAGTTCGTA 304 GATTGTATCA 653 -- T TA TGA G T
 GTCTTGAGTATTGGTATTAC GTTCGCTAGT GAGATTGTA TC AGT TCG GTCT GTATTG TATA
 TATATAGTATAGATGTCG CTTG ||||| ||||| ||||| |||||
 ACGCTAGATATAACAGTCTC CTCTGACAT AG TCG AGC TAGA TATGAT ATA C
 AT A C TG TA- - T

GAM319 GGCAAATCTTATCATTGGTC 305 TAACATCGAT 654 CTT - --- TG- TTGCTTT
 GGTGTTGGTCTGCTTGT TCCCATATGA GGCAAAT ATCAT TGG TCGGTGTT GTC G
 GACTTTGATAATAACATCGA TGTT ||||| ||||| ||||| |||||
 TTCCCATATGATGTTGTT TTGTTG TAGTA ACC AGCTACAA TAG /
 --- T CTT TAA TTTCAGT

GAM320 ACCTCTTCTGATGGAGTCG 306 TGATGGAGTC 655 TTTCT- T TC AAG CT TC
 TCTTC T CTCACAA
 TAAAAAAAGTTTATCTCTTT GTAAAAAAAGT C GA GGAG GTAAAAA TTTTAT CTT TC GA
 GGT A
 CTCTCTCGATGGTCTCACAGTTA | ||||| ||||| ||||| |||||
 AAAATATTAAACCTCTTCT GCTTCTC TATTTC AAAATG GAG AG CTCCA A
 GATGGAGTCGTAAGTT GATGGAGTCGTAAGTT
 TTATCTCTTCTCTTCGAT TTATCTCTTCTCTTCGAT
 GGT GGT

GAM321 ACCTCTTCTGATGGAGTCG 307 TGATGGAGTC 656 TTTCT TG TC AAG CT TC
 TCTTC T CTCACAA
 TAAAAAAAGTTTATCTCTTT GTAAAAAAAGT TC GA GAG GTAAAAA TTTTAT CTT TC GA
 GGT A
 CTCTCTCGATGGTCTCACAGTTA || ||||| ||||| ||||| |||||
 AAAATATTAAACCTCTTCT GATGGAGTCGTAAGTT
 GATGGAGTCGTAAGTT TTATCTCTTCTCTTCGAT
 TTATCTCTTCTCTTCGAT
 TGGT

GAM322 ACCTCTTCTGATGGAGTCG 308 TGATGGAGTC 657 TTTCT TG TC AAG CT TC
 TCTTC T CTCACAA
 TAAAAAAAGTTTATCTCTTT GTAAAAAAAGT TC GA GAG GTAAAAA TTTTAT CTT TC GA
 GGT A
 CTCTCTCGATGGTCTCACAGTTA || ||||| ||||| ||||| |||||
 AAAATATTAAACCTCTTCT GATGGAGTCGTAAGTT
 GATGGAGTCGTAAGTT TTATCTCTTCTCTTCGAT
 TTATCTCTTCTCTTCGAT
 TGGT

GAM323 ACCTCTTCTGATGGAGTCG 309 TGATGGAGTC 658 TTTCT TG TC AAG CT TC
 TCTTC T CTCACAA
 TAAAAAAAGTTTATCTCTTT GTAAAAAAAGT TC GA GAG GTAAAAA TTTTAT CTT TC GA
 GGT A
 CTCTCTCGATGGTCTCACAGTTA || ||||| ||||| ||||| |||||
 AAAATATTAAACCTCTTCT GATGGAGTCGTAAGTT
 GATGGAGTCGTAAGTT TTATCTCTTCTCTTCGAT

TTATCTCTTCTCTCTCGA
 TGGT
 GAM324 ACCTCTTCTGATGGAGTCG 310 TGATGGAGTC 659 TTTCT TG TC AAG CT TC
 TCTTC T CTCACAA
 TAAAAAAAGTTTATCTCTTT GTAAAAAAAGT TC GA GAG GTAAAAA TTTTAT CTT TC GA
 GGT A
 CTCTCTCGATGGTCTCACA TTTA ||||| ||||| ||||| ||||| |||||
 AAAATATTAAACCTCTTCT AG CT TTC TATTTT AAAATG GAG AG CT CCA A
 GATGGAGTCGTAAGAGTT CTTCT CT TC GAA CT GT TCTTT - AATTATA
 TTATCTCTTCTCTCTCGA
 TGGT
 GAM325 ACCTCTTCTGATGGAGTCG 311 TGATGGAGTC 660 TTTCT TG TC AAG CT TC
 TCTTC T CTCACAA
 TAAAAAAAGTTTATCTCTTT GTAAAAAAAGT TC GA GAG GTAAAAA TTTTAT CTT TC GA
 GGT A
 CTCTCTCGATGGTCTCACA TTTA ||||| ||||| ||||| ||||| |||||
 AAAATATTAAACCTCTTCT AG CT TTC TATTTT AAAATG GAG AG CT CCA A
 GATGGAGTCGTAAGAGTT CTTCT CT TC GAA CT GT TCTTT - AATTATA
 TTATCTCTTCTCTCTCGA
 TGGT
 GAM326 ACCTCTTCTGATGGAGTCG 312 TGATGGAGTC 661 TTTCT TG TC AAG CT TC
 TCTTC T CTCACAA
 TAAAAAAAGTTTATCTCTTT GTAAAAAAAGT TC GA GAG GTAAAAA TTTTAT CTT TC GA
 GGT A
 CTCTCTCGATGGTCTCACA TTTA ||||| ||||| ||||| ||||| |||||
 AAAATATTAAACCTCTTCT AG CT TTC TATTTT AAAATG GAG AG CT CCA A
 GATGGAGTCGTAAGAGTT CTTCT CT TC GAA CT GT TCTTT - AATTATA
 TTATCTCTTCTCTCTCGA
 TGGT
 GAM327 ACCTCTTCTGATGGAGTCG 313 TGATGGAGTC 662 TTTCT TG TC AAG CT TC
 TCTTC T CTCACAA
 TAAAAAAAGTTTATCTCTTT GTAAAAAAAGT TC GA GAG GTAAAAA TTTTAT CTT TC GA
 GGT A
 CTCTCTCGATGGTCTCACA TTTA ||||| ||||| ||||| ||||| |||||
 AAAATATTAAACCTCTTCT AG CT TTC TATTTT AAAATG GAG AG CT CCA A
 GATGGAGTCGTAAGAGTT CTTCT CT TC GAA CT GT TCTTT - AATTATA
 TTATCTCTTCTCTCTCGA
 TGGT
 GAM328 ACCTCTTCTGATGGAGTCG 314 TGATGGAGTC 663 TTTCT TG TC AAG CT TC
 TCTTC T CTCACAA
 TAAAAAAAGTTTATCTCTTT GTAAAAAAAGT TC GA GAG GTAAAAA TTTTAT CTT TC GA
 GGT A
 CTCTCTCGATGGTCTCACA TTTA ||||| ||||| ||||| ||||| |||||
 AAAATATTAAACCTCTTCT AG CT TTC TATTTT AAAATG GAG AG CT CCA A
 GATGGAGTCGTAAGAGTT CTTCT CT TC GAA CT GT TCTTT - AATTATA
 TTATCTCTTCTCTCTCGA
 TGGT
 GAM329 ACCTCTTCTGATGGAGTCG 315 TGATGGAGTC 664 TTTCT TG TC AAG CT TC
 TCTTC T CTCACAA
 TAAAAAAAGTTTATCTCTTT GTAAAAAAAGT TC GA GAG GTAAAAA TTTTAT CTT TC GA
 GGT A

CTCTCTTCGATGGTCTCACA	TTTA		AG CT TTC TATTTT AAAATG GAG AG CT CCA A
AAAATATTAAACCTCTTCT			GATGGAGTCGTAAGGT
GATGGAGTCGTAAGGT			CTTCT CT TC GAA CT GT TCTTT - AATTATA
TTATCTCTTCTCTCTCGA			TGGT
TGGT			
GAM330 ACCTCTTCTGATGGAGTCG 316	TGATGGAGTC 665	TTTCT TG TC AAG CT TC	
TCTTC T CTCACAA			
GGT A	TAAAAAAAGTTTATCTCTTT	GTAAAAAAAGT	TC GA GAG GTAAAAA TTTTAT CTT TC GA
CTCTCTTCGATGGTCTCACA	TTTA		
AAAATATTAAACCTCTTCT			AG CT TTC TATTTT AAAATG GAG AG CT CCA A
GATGGAGTCGTAAGGT			CTTCT CT TC GAA CT GT TCTTT - AATTATA
TTATCTCTTCTCTCTCGA			TGGT
TGGT			
GAM331 ACCTCTTCTGATGGAGTCG 317	CGTAAAAAAAG 666	TTTCT TG TC AAG CT C TTCC-	
T CTCACAA			
GGT A	TAAAAAAAGTTTATCTTCT	TTTTATCTTT	TC GA GAG GTAAAAA TTTTAT TTCT TC GA
CTCTTCGATGGTCTCACAAA	CTCT		
AATATTAAACCTCTTCTGA			AG CT TTC TATTTT AAAATG GAGG AG CT CCA
A	TGGAGTCGTAAGGT	CTTCT CT TC GAA CT T TCTTT	- AATTATA
ATCTCTTCTCTCTCGATG			GT
GT			
GAM332 ATTAATTATAAAATTATGTA 318	TAAGTTAGTA 667	TA-- - A-- - T	
TATGATTTACTAACCTTAGT	ATACATAAAT	ATTAAT TAAAATT ATGTAT	TGATTAA CTAAC T
TAGATAAGTTAGTAATACAT	TTTA		
AAATTTAGTATATTAAT		TAATTA ATTAA TACATA	ATTGAAT GATTG T
	TATG A ATG A A		
GAM333 GATGGAGTCGTAAGGT 319	TGATGGAGTC 668	T TC AAG -- T	TCCTTC T
CTCACAA			
TTATCTCTTCTCTCGAT	GTAAAAAAAGT	GA GGAG GTAAAAA TTTTAT CTCT TC	GA GGT
A			
GGTCTCACAAAATATTAAA	TTTA		
CCTCTTCTGATGGAGTCGT			CT TCTC TATTTT AAAATG GAGG AG CT CCA A
AAAAAAGTTTATCTCTTTC			T -- GAA CT T TCTTT- - AATTATA
GAM334 GATGGAGTCGTAAGGT 320	TGATGGAGTC 669	T TC AAG -- T	TCCTTC T
CTCACAA			
TTATCTCTTCTCTCGAT	GTAAAAAAAGT	GA GGAG GTAAAAA TTTTAT CTCT TC	GA GGT
A			
GGTCTCACAAAATATTAAA	TTTA		
CCTCTTCTGATGGAGTCGT			CT TCTC TATTTT AAAATG GAGG AG CT CCA A
AAAAAAGTTTATCTCTTTC			T -- GAA CT T TCTTT- - AATTATA
GAM335 GATGGAGTCGTAAGGT 321	TGATGGAGTC 670	T TC AAG -- T	TCCTTC T
CTCACAA			

	TTATCTCTTCTCCTTCGAT	GTAAAAAAAGT	GA GGAG GTAAAAA TTTTAT CTCT TC GA GGT
A	GGTCTCACAAAAATATTAAA CCTCTTCTGATGGAGTCGT AAAAAGTTTATCTCTTC	TTTA	 CT TCTC TATTTT AAAATG GAGG AG CT CCA A T -- GAA CT T TCTT- - AATTATA
	GAM336 GATGGAGTCGTAAGTT 322	TGATGGAGTC 671	T TC AAG CT TC TCTTC T
	CTCACAA		
A	TTATCTCTTCTCTCTCGA	GTAAAAAAAGT	GA GGAG GTAAAAA TTTTAT CTT TC GA GGT
	TGGTCTCACAAAAATATTAA ACCTCTTCTGATGGAGTCG TAAAAAGTTTATCTCTTC	TTTA	 CT TCTC TATTTT AAAATG GAG AG CT CCA A T -- GAA CT GT TCTT- - AATTATA
C			
	GAM337 GATGGTCTCATAGTT 323	ATAAAAAAAG 672	G TCATAAAA TTTTAC ATTCT-
	CTCTCTT TG		
	TTTACAAAAATATTTTATT	TTTTACAAAA	AT GTC AAAG AAAATATTTT CTTT
TGA G	CTCTTCTCTCTGATGGT CTCATAAAAAGTTTACA AAAATTTTATTCTCTT CTCTTTGATGGTC	ATAT	 TG TAG TTTC TTTTATAAAA GAAA ACT / G TTTCTCTC TCTTA- CATTAA AAAAT-- CT
	GAM338 GGAGTCATAAAATATTTA 324	TAAAATATTT 673	TC A T- T TCTCTTC T
	CTCACAA		
A	TTCTCTTCTCTCTCGATG	TTATTCTCTT	GGAG ATAAAAT TTTTAT CTCT TC GA GGT
	GTCTCACAAAAATATTAAAC CTCTTCTGATGGAGTCGT AAAAAGTTTATCTCT	TCTC	 TCTC TATTTG AAAATG GAGG AG CT CCA A -- A CT T TCTT- - AATTATA
	GAM339 TTAAACCTCTTCTGATGGA 325	TGATGGAGTC 674	CTTTCT TG TC AAG -- T TCCTTC
	T CTCACAA		
GGT A	GTCTAAAAAGTTTATCT	GTAAAAAAAGT	GA GAG GTAAAAA TTTTAT CTCT TC GA
	CTTCTCCTTCGATGGTCTC ACAAAAATATTAAACCTCT TCTGATGGAGTCGAAAAAA GTTTATCTCTTCTCCTT CTCACAAAAA	TTTA	 CT TTC TATTTT AAAATG GAGG AG CT CCA A TCTTCTC CT TC GAA CT T TCTT- - AATTATA
	GAM340 TTTTCTTGGTACAAAATT 326	TCTTGGTAC 675	T TT CACAA --- CA A
	TCACACAAGTTTATACAG	AAAATTCAC	TTTTCTT GGTACAAA TCA GTTTT TATA
GACAA T	ACAAATTCTGTCCATATAT TTTAAACATTGACTTTGT ACTAAGAAAAA	ACAA	 AAAAAGAA TCATGTTT AGT CAAAA ATAT CTGTT T - C TA--- TTTT AC C

GAM341 AGAGATAAACTTTTACG 327 TGAGACCATC 676 -- AC ----- A A AAGA A T
 ACTCCATCAGAAAGAGGTTT GAAGGGAGACT AGAGATA AAACTTTTT GA CTCC TC GA
 GGTTT ATA T
 AATATTTTGAGACCATC CCAT ||||| |||||| ||||| ||||| |||||
 GAAGGGAGACTCCATCAGAAA TTTTTAT TTTGGAGAAA CT GAGG AG CT CCAGA
 TGT T
 GAGGTTAACATTTTT AA GA ACCTCA A - A-- G T

GAM342 ATAAAAATATTTGTAAAA 328 AATATTTTG 677 AAAAA A-- GA
 CTTTTTTATGAGACCATCA TAAAACTTT ATAAAAATATTTGT CTTTTTT TGA C
 AAGAGAGAAAGAGAATAAAA TTTA ||||||||| ||||| |||||
 ATATTTTGTT GTTTTTATAAAAATA GAAAGAGA ACT /
 AGA- GAA AC

GAM343 ATAAAAATATTTGTAAAA 329 AATATTTTG 678 AAAAA A-- GA
 CTTTTTTATGAGACCATCA TAAAACTTT ATAAAAATATTTGT CTTTTTT TGA C
 AAGAGAGAAAGAGAATAAAA TTTA ||||||||| ||||| |||||
 ATATTTTGTT GTTTTTATAAAAATA GAAAGAGA ACT /
 AGA- GAA AC

GAM344 ATGGATTTACTAGATCATT 330 TTATACGATC 679 - TTT - ATTT- ACC
 TATATACCAAAAATATTAT TACGTTTAT ATG GAT AC TAGATC ATAT A
 ACGATCTACGTTTATTATA TATA ||| ||| ||| ||||| |||||
 T TATT TA TG ATCTAG TATA A
 A TTT C CATAT AAA

GAM345 CTTTTTACGACTCCATCAG 331 CATCAGAAAG 680 A CTCCA G G T A G GACCA -
 AAAGA
 AAAGAGGTTAACATTTTG AGGTTTAATA T CGA TCA AAAGA GTT AAT TTTTT TGA TCG
 AAGAGAG G
 TGAGACCATCGAAGAGAGAA TTTT ||| ||| ||| ||| ||| ||| ||| |||
 AGAGATAAAACTTTTACG A GCT AGT TTTTT TAA TTG AGAAA ACT AGC TTTTTTC
 A
 ACTCCATCAGAAAGAGGTTT - ACCAG G A T G G ACCTC A AAAAT
 AATATTTTGAGACCATC
 GAAGAGAG

GAM346 CTTTTTACGACTCCATCAG 332 CATCAGAAAG 681 A CTCCA G G T A G GACCA -
 AAAGA
 AAAGAGGTTAACATTTTG AGGTTTAATA T CGA TCA AAAGA GTT AAT TTTTT TGA TCG
 AAGAGAG G
 TGAGACCATCGAAGAGAGAA TTTT ||| ||| ||| ||| ||| ||| ||| |||
 AGAGATAAAACTTTTACG A GCT AGT TTTTT TAA TTG AGAAA ACT AGC TTTTTTC
 A
 ACTCCATCAGAAAGAGGTTT - ACCAG G A T G G ACCTC A AAAAT
 AATATTTTGAGACCATC

GAAGAGAG
 GAM347 CTTTTTACGACTCCATCAG 333 CATCAGAAAG 682 A CTCCA G G T A G GACCA -
 AAAGA
 AAAGAGGTTAACATTGG AGGTTAATA T CGA TCA AAAGA GTT AAT TTTTT TGA TCG
 AAGAGAG G
 TGAGACCATCGAAGAGAGAA TTTT ||||| ||||| ||||| ||||| |||||
 AGAGATAAAACTTTTACG A GCT AGT TTTTT TAA TTG AGAAA ACT AGC TTTTTTC
 A
 ACTCCATCAGAAAGAGGTTT - ACCAG G A T G G ACCTC A AAAAT
 AATATTTTGTGAGACCATC
 GAAGAGAG
 GAM348 CTTTTTACGACTCCATCAG 334 CATCAGAAAG 683 A CTCCA G G T A G GACCA -
 AAAGA
 AAAGAGGTTAACATTGG AGGTTAATA T CGA TCA AAAGA GTT AAT TTTTT TGA TCG
 AAGAGAG G
 TGAGACCATCGAAGAGAGAA TTTT ||||| ||||| ||||| |||||
 AGAGATAAAACTTTTACG A GCT AGT TTTTT TAA TTG AGAAA ACT AGC TTTTTTC
 A
 ACTCCATCAGAAAGAGGTTT - ACCAG G A T G G ACCTC A AAAAT
 AATATTTTGTGAGACCATC
 GAAGAGAG
 GAM349 CTTTTTACGACTCCATCAG 335 CATCAGAAAG 684 A CTCCA G G T A G GACCA -
 AAAGA
 AAAGAGGTTAACATTGG AGGTTAATA T CGA TCA AAAGA GTT AAT TTTTT TGA TCG
 AAGAGAG G
 TGAGACCATCGAAGAGAGAA TTTT ||||| ||||| ||||| |||||
 AGAGATAAAACTTTTACG A GCT AGT TTTTT TAA TTG AGAAA ACT AGC TTTTTTC
 A
 ACTCCATCAGAAAGAGGTTT - ACCAG G A T G G ACCTC A AAAAT
 AATATTTTGTGAGACCATC
 GAAGAGAG
 GAM350 CTTTTTACGACTCCATCAG 336 CATCAGAAAG 685 A CTCCA G G T A G GACCA -
 AAAGA
 AAAGAGGTTAACATTGG AGGTTAATA T CGA TCA AAAGA GTT AAT TTTTT TGA TCG
 AAGAGAG G
 TGAGACCATCGAAGAGAGAA TTTT ||||| ||||| ||||| |||||
 AGAGATAAAACTTTTACG A GCT AGT TTTTT TAA TTG AGAAA ACT AGC TTTTTTC
 A
 ACTCCATCAGAAAGAGGTTT - ACCAG G A T G G ACCTC A AAAAT
 AATATTTTGTGAGACCATC
 GAAGAGAG
 GAM351 CTTTTTACGACTCCATCAG 337 CATCAGAAAG 686 A CTCCA G G T A G GACCA -
 AAAGA
 AAAGAGGTTAACATTGG AGGTTAATA T CGA TCA AAAGA GTT AAT TTTTT TGA TCG
 AAGAGAG G
 TGAGACCATCGAAGAGAGAA TTTT ||||| ||||| ||||| |||||
 AGAGATAAAACTTTTACG A GCT AGT TTTTT TAA TTG AGAAA ACT AGC TTTTTTC
 A
 ACTCCATCAGAAAGAGGTTT - ACCAG G A T G G ACCTC A AAAAT
 AATATTTTGTGAGACCATC

GAAGAGAG
 GAM352 CTTTTTACGACTCCATCAG 338 CATCAGAAAG 687 A CTCCA G G T A G GACCA -
 AAAG
 AAAGAGGTTAATATTTTG AGGTTAATA TT CGA TCA AAAGA GTT AAT TTTTT TGA TCG
 AAGAGAG A
 TGAGACCATCGAAGAGAGAA TTTT ||||| ||||| ||||| ||||| ||||| |||||
 AGATAAACTTTTACGAC AA GCT AGT TTTTT TAA TTG AGAAA ACT AGC
 TTTTTTC T
 TCCATCAGAAAGAGGTTAA - ACCAG G A T G G ACCTC A AAAA
 TATTTTGTGAGACCATCGA
 AGAGAG
 GAM353 GTGTGCCTGAATCGTCGAT 339 TGAATAGAGT 688 C TTGAT C C CAA
 TAACCCTACTCATCCAATT TATCGATTCA GTGTG CTGAATCG TAAC CTA TCATC T
 CAGATGAATAGAGTTATCGA GACA ||||| ||||| ||||| |||||
 TTCAGACACAC CACAC GACTTAGC ATTG GAT AGTAG T
 A T---- A A ACT

GAM354 TCAGAAAGAGGTTAATATT 340 AGAGGTTAA 689 AAA GTT-- GAGACCA- GA
 TTTGTGAGACCATCGAAGAG TATTTTG TG TCAG GAG AATTTTTGT TC A
 AGAAAGAGAATAAAATATT AGAC ||||| ||||| ||||| |||||
 TTATGACTCCATTGA AGTT CTC TTATAAAAATA AG /
 AC- AGTATT AGAGAAAG AG

GAM355 TGAGACCATCAAAGAGAGAA 341 AGAGAGAAAG 690 ACCA AAG AGA- AAAA
 A-- GA
 AGAGAATAAAATATTTTG AGAATAAAA TCA AGAGAAAG ATAAAAATATTTGT
 CTTTTTTT TGA C
 TAAAACTTTTTATGAGAC TATT ||||| ||||| ||||| |||||
 CATCAAAGAGAGAAAGAGAA AGT TTTTTTC TGTTTTATAAAAATA GAAAGAGA
 ACT /
 TAAAAATATTTGTAAAAC CCAG A-- AAAA AGA- GAA AC
 TTTTTTATGAGACCATCA

GAM356 TTTTATGAGACCATCAAAGA 342 GAAGAGAGAA 691 ACCA AAG AGA- AAAA---
 - A
 GAGAAAGAGAATAAAATAT AGAGAATAAA TCA AGAGAAAG ATAAAAATATTTGT
 CTTTTTTG TG G
 TTTTGTAAAACTTTTGT AATA ||||| ||||| ||||| |||||
 GAGACCATCGAAGAGAGAA AGT TTTTTTC TGTTTTATAAAAATA
 GAGAGAAC AC A
 GAGAATAAAATATTTGT CCAG A-- AAAA AGAGAAA T C
 AAAACTTTTTATGAGACC
 ATCAAAGAGAG

GAM357 TTTTCTTAGTACAAAAGTC 343 TCAATGTTT 692 A- G- AT--- AAAA G
 AATGTTTAAAATATATGGA AAAATATATG TTTTCTT GTACAAAA TCA GTTTT
 TATATGGACAA A
 CAAGAATTGTCTGTATAAA GACA ||||| ||||| ||||| |||||
 AACCTGTGTGAAATTTGTA AAAAGAA CATGTTT AGT CAAAA ATATGTCTGTT A

CCAAAGAAAAA	AC	AA	GTGTT	----	T
GAM358 TCACCTTATCAAAGTCGTT 344	TTGGTTGTGG 693	CCTT	A	TT	CACAT TATA T-
TT					
ATATCACATTGTATATAGTT	ATCTTCTACA	TCA	ATCA AGTCGT	ATAT	TGTA
GTTTATAACC TAACT C					
TATAACCTAACCTTCGAGG	ATAT				
TTATTGGTTGTGGATCTTCT		AGT TAGT TCAGTA TATA ACAT			TAGGTGTTGG
ATTGG /					
ACAATATCTATGACTCTGAT	TCTT	C TC ----	CTTC	TT	AG
TTCTTGA					
GAM359 TCGGCCATACGTTACTTT 345	TATCATAAAG 694	AC T	C- -	GT	
TGCGTATACATGTCCTGGTG	GGTATGCTCA	TCGGCCAT	GT TACTTTTG	GTATA CAT C	
ATATATCATAAAGGGTATGC	TGGC				
TCATGGCCGA		AGCCGGTA CG ATGGGAAAT TATAT GTG C			
CT T	AC A	GT			
GAM360 TCGATGATACATGTATTAAA 346	TGATACATGT 695	A---	TGTA	T TCC	
ATACTTCCGAATAAGTCTT	ATAAAAATAC	TCG TGATACA	TTAAAA ACTT G		
TTAAATATTGTATTAATTAT	TTTC				
GA	AGT ATTATGT	AATTTT TGAA /			
	ATTA	TATA C TAA			
GAM361 AAAATCGATTCCGTCCAAGA 347	TCGATTCCGT 696	C	CCAAG	AAAAACA	
TGATAAAAACATTACCGGC	CCAAGATGAT	AAAAT GATTCCGT	ATGAT	T	
ATCATAAACACGGAGTTAT	AAAA				
TTT	TTTTA TTGAGGCA	TACTA T			
	T CAAA-	CGGCCAT			
GAM362 CATGGAGATACTTTATTACT 348	TAATGTCCTG 697	-----	T	TAAATA	
CCATTAAATAATTATCATG	TTTCATTTGT	CATGGAGAT	AC TTATTACTCCAT	A	
GAGTGATAATGTCCTGTTTC	TTCC				
ATTGTTCCATG		GTACCTTG	TG AATAGTGAGGTA /		
	TTTACTTTGTCC T		CTATTT		
GAM363 AGTATGTTGTACGGAAAGAA 349	TGATTGGAGA 698	--	A GAAAGAACCA--	AAATATTA	
TG--- AAGA					
CCATTACAAATATTATCCAT	AGTAGGAAAC	AGTA TGTTGT CG	TTAC	TCCA	
ATAGA A					
GATAGAAAGAAAATATCTAT	AGGA				
ATGATTGGAGAAGTAGGAAA		TCAT GCAACA GC	GATG AGGT	TATCT /	
CAGGAACACGACAACGATTA			TA - ACAAGGACAAAG	AAG---- TAGTA	ATAA
CT					

GENE	TARGET	UTR SEQUENCE	SEQID	BINDING-SITE
GAM15	CAPN2	3' AAAACTTTATGAACTTCACCA	855	A _ AAA
		TG TGGAGT CGTAA AGTTTT		
		AC ACTTCA GTATT TCAAAA		
		C A __		
GAM15	DAAM2	3' AAAATTTTCTAAAACCCATC	3559	CG A
		A TGATGGAGT TA AAAAGTTTT		
		ACTACCTCA AT TTTTTAAAA		
		AA C		
GAM15	SELE	3' AAAACTCTCCTACACTTCCATT	747	_ C AAAA
		A TGATGGA GT GTA AGTTTT		
		ATTACCT CA CAT TCAAAA		
		T _ CCTC		
GAM15	KIAA0475	3' AAAACCTTGCATTCCATCA	1570	C AAAA
		TGATGGAGT GTAA GTTTT		
		ACTACCTTA CGTT CAAAA		
		— C__		
GAM15	LOC222671	5' GCTTCTACGACTCCGCCA	3582	A AAA
		TG TGGAGTCGTA AAGT		
		AC GCCTCAGCAT TTCTG		
		C C__		
GAM15	LOC254901	5' AATTTCTTCACTGACTCCACCA	3699	A _ A A
		TG TGGAGTC GT AA AAGTT		
		AC ACCTCAG CA TT TTTAA		
		C T C C		
GAM15	LOC257615	5' GCTTCTACGACTCCGCCA	3749	A AAA
		TG TGGAGTCGTA AAGT		
		AC GCCTCAGCAT TTCTG		
		C C__		
GAM16	CAPN2	3' AAAACTTTATGAACTTCACCA	855	A _ AAA
		TG TGGAGT CGTAA AGTTTT		
		AC ACTTCA GTATT TCAAAA		
		C A __		
GAM16	DAAM2	3' AAAATTTTCTAAAACCCATC	3559	CG A
		A TGATGGAGT TA AAAAGTTTT		
		ACTACCTCA AT TTTTTAAAA		
		AA C		
GAM16	SELE	3' AAAACTCTCCTACACTTCCATT	747	_ C AAAA
		A TGATGGA GT GTA AGTTTT		

ATTACCT CA CAT TCAAAA
T _ CCTC
GAM16 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAAA
TGATGGAGT GTAA GTTTT
|||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__
GAM16 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTCG
C C__
GAM16 LOC254901 5' AATTTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C
GAM16 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTCG
C C__
GAM17 CAPN2 3' AAAACTTTATGAACCTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __
GAM17 DAAM2 3' AAAATTTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
|||||| || |||||
ACTACCTCA AT TTTTAAAAA
AA C
GAM17 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|| ||||| || |||||
ATTACCT CA CAT TCAAAA
T _ CCTC
GAM17 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAAA
TGATGGAGT GTAA GTTTT
|||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__
GAM17 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTCG
C C__
GAM17 LOC254901 5' AATTTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||

AC ACCTCAG CA TT TTTAA
C T C C
GAM17 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTCG
C C__

GAM18 CAPN2 3' AAAACTTTATGAACCTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM18 DAAM2 3' AAAATTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
|| ||||| || |||||
ACTACCTCA AT TTTTAAAAA
AA C

GAM18 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|| ||||| || |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM18 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
|| ||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__

GAM18 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTCG
C C__

GAM18 LOC254901 5' AATTTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM18 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTCG
C C__

GAM19 CAPN2 3' AAAACTTTATGAACCTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM19 DAAM2 3' AAAATTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
|| ||||| || |||||

ACTACCTCA AT TTTTAAAAA
AA C

GAM19 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM19 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
||||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__

GAM19 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM19 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM19 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM20 CAPN2 3' AAAACTTTATGAACTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM20 DAAM2 3' AAAATTTTCTAAAACCTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
||||||| || |||||
ACTACCTCA AT TTTTAAAAA
AA C

GAM20 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| | |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM20 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
||||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__

GAM20 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||

AC GCCTCAGCAT TTCG
C C__
GAM20 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM20 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTCG
C C__

GAM21 CAPN2 3' AAAACTTTATGAACCTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| || |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM21 DAAM2 3' AAAATTTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
||||||| || |||||
ACTACCTCA AT TTTTAAAA
AA C

GAM21 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
||||||| || |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM21 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
||||||| || |||||
ACTACCTTA CGTT CAAAA
_ C__

GAM21 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTCG
C C__

GAM21 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM21 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTCG
C C__

GAM22 CAPN2 3' AAAACTTTATGAACCTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| || |||||

AC ACTTCA GTATT TCAAAA
C A __
GAM22 DAAM2 3' AAAATTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTT
|||||| || |||||
ACTACCTCA AT TTTTAAAAA
AA C

GAM22 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| || ||| |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM22 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
|||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__

GAM22 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTCG
C C__

GAM22 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM22 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTCG
C C__

GAM23 CAPN2 3' AAAACTTTATGAACCTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM23 DAAM2 3' AAAATTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTT
|||||| || |||||
ACTACCTCA AT TTTTAAAAA
AA C

GAM23 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| || ||| |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM23 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
|||||| |||||

ACTACCTTA CGTT CAAAA
 _ C_

GAM23 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
 TG TGGAGTCGTA AAGT
 |||||||| |||||
 AC GCCTCAGCAT TTG
 C C_

GAM23 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
 TG TGGAGTC GT AA AAGTT
 |||||||| |||||
 AC ACCTCAG CA TT TTTAA
 C T C C

GAM23 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
 TG TGGAGTCGTA AAGT
 |||||||| |||||
 AC GCCTCAGCAT TTG
 C C_

GAM24 CAPN2 3' AAAACTTTATGAACCTTCACCA 855 A _ AAA
 TG TGGAGT CGTAA AGTTTT
 |||||||| |||||
 AC ACTTCA GTATT TCAAAA
 C A _

GAM24 DAAM2 3' AAAATTTTCTAAACTCCATC 3559 CG A
 A TGATGGAGT TA AAAAGTTTT
 |||||||| |||||||
 ACTACCTCA AT TTTTAAAA
 AA C

GAM24 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
 A TGATGGA GT GTA AGTTTT
 |||||||| |||||
 ATTACCT CA CAT TCAAAA
 T _ CCTC

GAM24 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
 TGATGGAGT GTAA GTTTT
 |||||||| |||||
 ACTACCTTA CGTT CAAAA
 _ C_

GAM24 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
 TG TGGAGTCGTA AAGT
 |||||||| |||||
 AC GCCTCAGCAT TTG
 C C_

GAM24 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
 TG TGGAGTC GT AA AAGTT
 |||||||| |||||
 AC ACCTCAG CA TT TTTAA
 C T C C

GAM24 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
 TG TGGAGTCGTA AAGT
 |||||||| |||||

AC GCCTCAGCAT TTG
C C
GAM25 CAPN2 3' AAAACTTTATGAACCTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM25 DAAM2 3' AAAATTTCTAAAACCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
|||||| |||||||
ACTACCTCA AT TTTTAAAAA
AA C

GAM25 SELE 3' AAAACTCTCCTACACTTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|| ||||| |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM25 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
|||||| |||||
ACTACCTTA CGTT CAAAA
_ C __

GAM25 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTG
C C __

GAM25 LOC254901 5' AATTTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM25 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTG
C C __

GAM26 ITGB7 5' AGAGAAAGTCTGACTTGCCCCA 783 AAAA_ TTAT
C GT AAGTT CTTCTCT
|| ||||| |||||
CA TTCAG GAAAGAGA
CCCCG TCT_

GAM26 RPP30 3' AGAGAAAGACAACGTGCG 1297 A A TTA
CGTA AA AGTT TCTTCTCT
|| ||||| |||||
GCGT TT TCAA AGAAAGAGA
C G C __

GAM26 FLJ13263 3' AGAGAAAGATTTAGCTTT 2139 TT_
AAAAGTT ATCTTCTCT
||||| |||||

TTTTCGA TAGAAAGAGA
 TTT
GAM26 FLJ23074 5' AGAGAAAGACAAAGGGTTT 2133 G A
 AAA TTTT CTTTCTCT
 ||| |||||
 TTT GGAA AGAAAGAGA
 G C
GAM26 GTF2A2 3' AGAAAAAAATATGACTTTTTAC 1119 T C_
 GTAAAAAAAGTT TAT TTTCT
 ||||||| ||| |||||
 CATTTCAG ATA AAAGA
 T AA
GAM26 IMP-2 3' AGAGAAAGCAGGCTTTCTA 1308 A TAT
 TA AAAAGTTT CTTTCTCT
 ||| ||||| |||||
 AT TTTTCGGA GAAAGAGA
 C C_
GAM26 KIAA0212 3' AGAAAGGTAAATCTTTTAC 1518 A T
 GTAAAAA G TTTATCTTCT
 ||||| | |||||
 CATTTC C AAATGGAAAGA
 T
GAM26 OSBPL2 5' AGAGAAAGTTGTAAAATTCC 1566 AAA —
 TAC GTAA AGTTTTAT CTTTCTCT
 ||| ||||| |||||
 CATT TTAAAATG GAAAGAGA
 CC_ TTT
GAM26 OSBPL2 5' AGAGAAAGTTGTAAAATTCC 2482 AAA —
 TAC GTAA AGTTTTAT CTTTCTCT
 ||| ||||| |||||
 CATT TTAAAATG GAAAGAGA
 CC_ TTT
GAM26 RBM9 3' AGAAAGAATACTTTTTAT 1489 TTTA
 GTAAAAAAAGT TCTTTCT
 ||||||| |||||
 TATTTTTCA AGAAAGA
 TA_
GAM26 LOC254826 3' AGAGAAAGTCTGCTTTT 3732 TTTAT
 AAAAAGT CTTTCTCT
 ||||| |||||
 TTTTTCG GAAAGAGA
 TTCT_
GAM27 CAPN2 3' AAAACTTATGAACTTCACCA 855 A _ AAA
 TG TGGAGT CGTAA AGTTTT
 ||| ||||| |||||
 AC ACTTCA GTATT TCAAAA
 C A —
GAM27 DAAM2 3' AAAATTTCTAAAACCCATC 3559 CG A
 A TGATGGAGT TA AAAAGTTT
 ||||||| |||||

ACTACCTCA AT TTTTAAAAA
AA C

GAM27 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM27 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
||||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__

GAM27 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM27 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM27 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM28 CAPN2 3' AAAACTTTATGAACTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM28 DAAM2 3' AAAATTTTCTAAAACCTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
||||||| || |||||
ACTACCTCA AT TTTTAAAAA
AA C

GAM28 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| | |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM28 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
||||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__

GAM28 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||

AC GCCTCAGCAT TTCG
C C__
GAM28 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM28 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTCG
C C__

GAM29 CAPN2 3' AAAACTTTATGAACCTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM29 DAAM2 3' AAAATTTTCTAAACCTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
||||||| || |||||
ACTACCTCA AT TTTTAAAA
AA C

GAM29 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
||||||| || |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM29 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
||||||| |||||
ACTACCTTA CGTT CAAAA
_ C__

GAM29 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTCG
C C__

GAM29 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM29 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTCG
C C__

GAM30 FGF2 3' ATATTTTGTGGCTGCTTTT 884 T_
AAAAAGT TTACAAAAATAT
||||| |||||||||

TTTTCG GGTGTTTATA
 TC
 GAM30 MPHOSPH1 3' ATATTTTATAAGGCTTTT 1670 C
 AAAAAAAGTTTA AAAAATAT
 ||||||| |||||
 TTTTTCGGAAT TTTTATA
 A
 GAM30 FLJ11274 3' ATATCTTGTAGTAGCTTTT 1820 - A
 TA TAAAAAAAGTT TTACAAA ATAT
 ||||||| |||||
 ATTTTTCGA GATGTTT TATA
 T C
 GAM30 FLJ31101 3' ATATTTTGAAATGTATTG 1771 AAAA
 T ATAAA GTTTACAAAAATAT
 ||||| |||||||||
 TGTTT TAAAATGTTTTATA
 ATG_
 GAM30 GPT2 3' ATATTTTGTAACAATTGCTT 2417 T_____
 TTT AAAAAAAGT TTACAAAAATAT
 ||||| |||||||
 TTTTTCG AATGTTTTATA
 TTAAC
 GAM30 RMP 3' TTTTGTAACACTTTTTTC 2430 T
 A AAAAAAAAGTTTACAAAA
 | |||||||||
 C TTTTTTCAAAATGTTT
 T
 GAM30 RMP 3' TTTTGTAACACTTTTTTC 1059 T
 A AAAAAAAAGTTTACAAAA
 | |||||||||
 C TTTTTTCAAAATGTTT
 T
 GAM30 SOX6 3' ATATTTTGCTTACTTTTTT 2328 TTT
 AAAAAAAGT ACAAAAATAT
 ||||| |||||
 TTTTTTCA TGTTTTATA
 TTC
 GAM30 LOC136288 3' ATATTTCTGAGGCTTTTTGT 3018 CAA
 ATAAAAAAAGTTTA AAATAT
 ||||||| |||||
 TGTTTTTTCGGAGT TTTATA
 C_
 GAM31 AICDA 3' AGAAAGAGAACATATT 1922 TTTA
 AAATATT TTCTCTTTCT
 ||||| |||||
 TTTATAA AAGAGAAAGA
 C_
 GAM31 AS3 3' AGAAAGATTAAAGTATTAA 1652 TATTC
 TAAAATATT TCTTTCT
 ||||||| |||||

ATTTTATGAAA AGAAAGA
 TTT_

GAM31 EPM2A 3' AGAAAGAGAAGTGT 1234 TTTTA
 AAAATAT TTCTCTTCT
 ||||| |||||
 TTTTGTG AAGAGAAAGA

——————
 GAM31 HRH1 3' AGAAAGAGAAATGAAATTTT 780 TA
 AAAATATTT TTCTCTTCT
 ||||| |||||
 TTTTATAAAG AAGAGAAAGA
 TA

GAM31 MAPK14 3' GAGAAAGGGCAAATTATTTA 818 T TATT
 TAAAATA TTT CTCTTCTC
 ||||| ||| |||||
 ATTTTAT AAA GGGAAAGAG
 T C_

GAM31 MAPK14 3' GAGAAAGGGCAAATTATTTA 2465 T TATT
 TAAAATA TTT CTCTTCTC
 ||||| ||| |||||
 ATTTTAT AAA GGGAAAGAG
 T C_

GAM31 MAPK14 3' GAGAAAGGGCAAATTATTTA 2466 T TATT
 TAAAATA TTT CTCTTCTC
 ||||| ||| |||||
 ATTTTAT AAA GGGAAAGAG
 T C_

GAM31 NOTCH2 3' GAGAATTAAAATATTTA 2058 T
 TAAAATATTT ATTCTC
 ||||||| |||||
 ATTTTATAAAA TAAGAG
 T

GAM31 SIM1 3' GAGAAAGAGAGAGATA 1181 TAT
 TATTTT TCTCTTCTC
 ||||| |||||
 ATAGAG AGAGAAAGAG

——————
 GAM31 C11orf25 3' AAAGAGAAAAATATTTA 2193 TAT
 TAAAATATTTT TCTCTT
 ||||| |||||
 ATTTTATAAAA AGAGAAA

——————
 GAM31 DKFZP564D116 3' GAAAAGCAATAAAAATATTTA 2938 _ C
 TAAAATATTTTATT CT TTTC
 ||||||||| |||||
 ATTTTATAAAAATAA GA AAAG
 C _

GAM31 DSCR6 3' GAGAAAGAGAAGGTATGTCA 1866 A TTTTA
 A ATAT TTCTCTTCTC
 ||||| ||||| |

A TGTA AAGAGAAAGAG
 C TCTGG
 GAM31 FLJ10006 3' GAGAAAGAAGATATTTA 3152 A
 TAAAATATTTT TTCTC
 ||||| |||||
 ATTTTATAGAAG AAGAG
 A
 GAM31 HTPAP 3' GAGAATAAAAAGATTTA 2255 A
 TAAAAT TTTTATTCTC
 ||||| |||||
 ATTTA AAAATAAGAG
 G
 GAM31 KIAA0979 3' AGAAAGATTTAAAGTATTTA 1601 TATTC
 TAAAATATTT TCTTC
 ||||| |||||
 ATTTTATGAAA AGAAAGA
 TTT_
 GAM31 KIAA1634 3' GAGAATAAAACTATTTA 2657 T
 TAAAATA TTTTATTCTC
 ||||| |||||
 ATTTTAT AAAATAAGAG
 C
 GAM31 PTD012 3' GAGATTGGGAACAAAAATAT 1465 A TT
 ATATTTT TTCTC TCTC
 ||||| |||||
 TATAAAAA AAGGG AGAG
 C TT
 GAM31 SAMHD1 3' AGAAAGAGAAAGAAATAT 2593 A
 ATATTTT TTCTCTTC
 ||||| |||||
 TATAAAGA AAGAGAAAGA

 GAM31 LOC196758 3' GAGAAAGAGCAGGTGAAATATT 3410 TATT_
 TT AAAATATTT CTCTTC
 ||||| |||||
 TTTTATAAAG GAGAAAGAG
 TGGAC
 GAM31 LOC219790 3' GAGAATAAAAATAATTTA 3520 A
 TAAA TATTTTATTCTC
 |||||
 ATTT ATAAAATAAGAG
 A
 GAM32 CAPN2 3' AAAACTTATGAACTTCACCA 855 A _ AAA
 TG TGGAGT CGTAA AGTTTT
 || ||||| |||||
 AC ACTTCA GTATT TCAAAA
 C A __
 GAM32 DAAM2 3' AAAATTTCTAAAACCCATC 3559 CG A
 A TGATGGAGT TA AAAAGTTT
 ||||| || |||||

ACTACCTCA AT TTTTAAAAA
 AA C

GAM32 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
 A TGATGGA GT GTA AGTTTT
 ||||| |||||
 ATTACCT CA CAT TCAAAA
 T _ CCTC

GAM32 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
 TGATGGAGT GTAA GTTTT
 ||||| |||||
 ACTACCTTA CGTT CAAAAA
 _ C_

GAM32 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
 TG TGGAGTCGTA AAGT
 |||||||||
 AC GCCTCAGCAT TTG
 C C_

GAM32 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
 TG TGGAGTC GT AA AAGTT
 |||||||||
 AC ACCTCAG CA TT TTTAA
 C T C C

GAM32 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
 TG TGGAGTCGTA AAGT
 |||||||||
 AC GCCTCAGCAT TTG
 C C_

GAM33 CAPN2 3' AAAACTTTATGAACTTCACCA 855 A _ AAA
 TG TGGAGT CGTAA AGTTTT
 ||||||| |||||
 AC ACTTCA GTATT TCAAAA
 C A _

GAM33 DAAM2 3' AAAATTTTCTAAAACCTCCATC 3559 CG A
 A TGATGGAGT TA AAAAGTTTT
 ||||| |||||||
 ACTACCTCA AT TTTTAAAAA
 AA C

GAM33 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
 A TGATGGA GT GTA AGTTTT
 ||||| |||||
 ATTACCT CA CAT TCAAAA
 T _ CCTC

GAM33 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
 TGATGGAGT GTAA GTTTT
 ||||| |||||
 ACTACCTTA CGTT CAAAAA
 _ C_

GAM33 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
 TG TGGAGTCGTA AAGT
 |||||||||

AC GCCTCAGCAT TTG
 C C
 GAM33 LOC254901 5' AATTTCTTCACTGACTCCACCA 3699 A _ A A
 TG TGGAGTC GT AA AAGTT
 ||||||| |||||
 AC ACCTCAG CA TT TTTAA
 C T C C

GAM33 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
 TG TGGAGTCGTA AAGT
 ||||||||| |||||
 AC GCCTCAGCAT TTG
 C C_

GAM34 ADCY6 3' TTGTACAATATTTGTACAAAG 1617 G TTCAC
 A TCTTTG TACAAAAT ACAA
 ||||| ||||| |||||
 AGAAAC ATGTTTTA TGTT
 - TAACA

GAM34 ADCY6 3' TTGTACAATATTTGTACAAAG 1933 G TTCAC
 A TCTTTG TACAAAAT ACAA
 ||||| ||||| |||||
 AGAAAC ATGTTTTA TGTT
 - TAACA

GAM34 APBB2 5' TGAGCTTTGTACCAAAGA 2946 AT
 TCTTTGGTACAAA TTCA
 ||||||||| |||||
 AGAAACCATGTTT GAGT
 C_

GAM34 ATP8B2 3' TGATTTTATACCAAAGA 2716 C TT
 TCTTTGGTA AAAA TCA
 ||||| ||||| |||||
 AGAAACCATTTT AGT
 A T_

GAM34 CEACAM1 3' TGTGTGAACTAGCAAAGA 848 G CAAAAT
 TCTTTG TA TTCACACA
 ||||| |||||
 AGAAAC AT AAGTGTGT
 G C_____

GAM34 CHST1 3' TGTGATATTTCTTGTGCCAAA 1046 ____ T
 TTTGGTACAAA AT TCACA
 ||||||| |||||
 AAACCGTGTAA AGTGT
 CTT T

GAM34 FBXL7 3' TGCGTGTCCCCACCAAAGA 1425 AC TTT A
 TCTTTGGT AAAA CAC CA
 ||||| ||||| |||||
 AGAAACCA TTTT GTG GT
 CC ____ C

GAM34 HOXC9 3' TGCGTGCAGATTTGTAC 2592 _ A
 GTACAAAATTT CAC CA
 ||||||||| |||||

			CATGTTT T AGA GTG GT			
			C C			
GAM34	IGF1	3'	TGTGGCATTGTACCAAA	763	ATT	
			TTTGGTACAAA	TCACA		
			AAACC A TGTTT	GGTGT		
			AC_			
GAM34	ITGAL	3'	TGTGAAATTCTGTCCAAA	907	T A	
			TTTGG ACA AATTCACA			
			AAACC TGT TTAAAGTGT			
			— C			
GAM34	LBR	3'	TGTACTGGATTGCACCAAGGA	2522	A AAT C_	
			TCTTG G GT CAA TTCA ACA			
			AGGAACCA GTT AGGT TGT			
			C __ CA			
GAM34	MIP	3'	TGTGTGAAATCTTCAG	1399	TACAAA	
			TTTGG ATTTCACACA			
			GA A CT TAAAGTGTGT			
			TTC__			
GAM34	RLN2	3'	TGTTGGTTGTACCAAA	1175	AATT C	
			TTTGGTACAA TCA ACA			
			AAACC A TGTT GGT TGT			
GAM34	SART2	3'	TGATTTTCATACCAAAAGA	1444	CA TT	
			TCTTG G TA AAA TCA			
			AGAAACCAT TTT AGT			
			AC T_			
GAM34	TPK1	3'	AAATTTGCTACCAAAAGA	1987	—	
			TCTTG G TA CAAAATT			
			AGAAACCAT GTTTAAA			
			C			
GAM34	TRIP12	3'	TGTGTGAAATTAAAAAGG	1094	GGTACA	
			TCTTT AAATTCACACA			
			GGAAA TTTAAAGTGTGT			
			AAA__			
GAM34	BRD3	3'	GTGTGAGATTGTACCGAAGA	1398	AA	
			TCTTG G TAC AAATTCACAC			
			AGAAGCCATG TTAGAGTGTG			
			C_			
GAM34	FLJ13397	3'	GTGTGAAATTACTAGCAA	2116	G CA	
			TTTG TA AAATTCACAC			

		AAAC AT TTTAAAGTGTG	
		G CA	
GAM34	FLJ22202	3' TGTATCATTGGTACCAAA 2103	TTC
		TTTGGTACAAAAT ACA	
		AAACCATGTTTA TGT	
		CTA	
GAM34	GROS1	3' TGTGTAGACAACCAAAGA 1986	ACAAAATT _
		TCTTGTT TC ACACA	
		AGAAACCA AG TGTGT	
		AC_____ A	
GAM34	KIAA0981	3' TGTGTAAAACGCCAAGGA 2598	CAAAA C
		TCTTGGA TTT ACACA	
		AGGAACCGT AAA TGTGT	
		C____ A	
GAM34	KIAA1243	3' TGTGACATGACCAAAAGA 2978	A AAATT
		TCTTGTT CA TCACA	
		AGAAACCA GT AGTGT	
		_ AC_____	
GAM34	KIAA1462	3' TTGTGTGAGAGGAACCCAAAGA 3524	TACAAAAA
		TCTTGGA TTTCACACAA	
		AGAAACC AGAGTGTGTT	
		CAAGG_____	
GAM34	MGC1136	3' TTGTGTGAAACCCCTAGCATAG 2041	T G CAAA
		A TCT TG TA TTTCACACAA	
		AGA AC AT AAAGTGTGTT	
		T G CCCC_	
GAM34	MSTP043	3' TGTCTTTATTTTACCAAAGA 2223	C TTC_
		TCTTGGA AAAAT ACA	
		AGAAACCAT TTTTA TGT	
		_ TTTC	
GAM34	Nup43	3' TGTGCAAAATTTAGTATCAGA 2075	_ CA
		TTTGGTAC AAAATT CACA	
		AGACTATG TTTAAA GTGT	
		A AC	
GAM34	RPS6KA4	3' TGTGCAATTACGTCCACCAAAG 1072	_ AA T
		A TCTTGTT AC AATT CACA	
		AGAAACCA TG TTAA GTGT	
		CC CA C	
GAM34	SLC17A6	3' TGAAACTTGTGCCACAGA 1911	T AA
		TCT TGGTACAA TTTCA	

AGA ACCGTGTT AAAGT
 C C_

GAM34 TERA 3' TGTATGAATAGTACCAAAG 1949 AAAAT C
 CTTGGTAC TTCA ACA
 ||||| |||||
 GAAACCATG AAGT TGT
 AT__ A

GAM34 VAV3 3' TTGTGTAGAGTTCTAACCAA 1273 CAA_ TC
 AGA TCTTGGTA AATT ACACAA
 ||||| |||||
 AGAAAACCAT TTGA TGTGTT
 AATC GA

GAM34 LOC120892 3' TGCAATTTCACCAAAGA 2987 C__ T
 TCTTGGTA AAAATT CA
 ||||| |||||
 AGAAAACCAT TTTAA GT
 TTT C

GAM34 LOC155434 3' TTGTGTGATTCGTACCAAA 3376 A TT
 TTTGGTAC AAA TCACACAA
 ||||| |||||
 AAACCATG TTT AGTGTGTT
 C __

GAM34 LOC169966 3' ATTTGCCTTACCAAAGA 3252 _____
 TCTTGGTA CAAAAT
 ||||| |||||
 AGAAAACCAT GTTTA
 TTCC

GAM34 LOC221272 3' TGTCTGCTCTGTACCAAGAGA 3616 AAATTT C
 TCTTGGTACA CA ACA
 ||||||| |||||
 AGAGACCATGT GT TGT
 CTC__ C

GAM34 LOC221968 3' TTGTGTGAAATTTGTCGAA 3569 GT
 TTTG ACAAAATTCACACAA
 |||| |||||
 AAGC TGTTTAAAGTGTGTT

GAM34 LOC86651 5' TTGTGTGAAAGATGTTCATAC 2830 CA _____
 CAAGGA CTTTGGTA AAAT TTCACACAA
 ||||| |||||
 GGAACCAT TTTG AAGTGTGTT
 AC TAGA

GAM34 LOC90322 3' GAGATTCCATACTAAAGA 2632 CAA
 TCTTGGTA AATTTC
 ||||| |||||
 AGAAAATCAT TTAGAG
 ACC

GAM35 MYO1E 5' ATGGAGTCCCCTCTAGGGTT 1168 ATC A A
 GACC GA GG GACTCCAT
 |||| |||||

TTGG CT CC CTGAGGTA
 GAT C _
 GAM35 ROCK2 3' ATGAAGTCTTTAACAGTCTC 2737 CATCGA C
 GAGAC AGGAGACT CAT
 ||||| ||||| |||
 CTCTG TTTCTGA GTA
 ACAA_ A

GAM35 MGC15937 5' GAGTTCTCTTCAGGTCTCA 2383 ATC —
 TGAGACC GAAGGAGA CTC
 ||||| ||||| |||
 ACTCTGG CTTCTTCT GAG
 AA_ TT

GAM35 STK16 5' GAGCTCTCGGTAGCCTCA 2937 ACC G A
 TGAG ATCGAAG AG CTC
 ||||| ||||| |||
 ACTC TGGCTTC TC GAG
 CGA _ —

GAM35 LOC148029 5' GGAGTCTCCATCCTCA 3116 ACCATC A
 TGAG GA GGAGACTCC
 ||||| ||||| |||
 ACTC CT CCTCTGAGG
 _____ A

GAM35 LOC169436 5' TGGAGTTCAATGAGCTCA 3261 AC C AGGAG
 TGAG CAT GA ACTCCA
 ||||| ||| |||||
 ACTC GTA CT TGAGGT
 GA A _____

GAM35 LOC256267 3' ATGGAGTCTCCCTCTGTC 3713 CATC A
 GAC GA GGAGACTCCAT
 ||| || ||||| |||
 CTG CT CCTCTGAGGTA
 T_ C

GAM35 LOC257426 3' GAGTCCTCGGTGGCCTCA 2755 A GA
 TGAG CCATCGAAGGA CTC
 ||||| ||||| |||
 ACTC GGTGGCTTCCT GAG
 C _____

GAM35 LOC92466 3' ATGGAGTCTCCCTCTGTC 2858 CATC A
 GAC GA GGAGACTCCAT
 ||| || ||||| |||
 CTG CT CCTCTGAGGTA
 T_ C

GAM36 MME 3' AAAAAAAAGTTACAGAAATA 785 AA
 TATTTTGTA ACTTTTTTT
 ||||| |||||
 ATAAAGACAT TGAAAAAAA

GAM36 MME 3' AAAAAAAAGTTACAGAAATA 1377 AA
 TATTTTGTA ACTTTTTTT
 ||||| |||||

ATAAAGACAT TGAAAAAAA

GAM36 MME 3' AAAAAAAAGTTACAGAAATA 1378 AA
TATTTTGTA ACTTTTTT
||||||| |||||
ATAAAGACAT TGAAAAAAA

GAM36 MME 3' AAAAAAAAGTTACAGAAATA 1379 AA
TATTTTGTA ACTTTTTT
||||||| |||||
ATAAAGACAT TGAAAAAAA

GAM36 DKFZP434C212 3' AAAAAGTACACAGAAATATT 2832 AAA
AATATTTTGTA ACTTTTTT
||||||| |||||
TTATAAAGACA TGAAAAA
CA_

GAM36 FLJ11275 3' TAAAATGGGATTTATAAAAATA 1821 A TT
TT AATATTTTGTAACCTTTTA
||||||| || |||||
TTATAAAAATATT GG AAAAT
A GT

GAM36 GOLPH3 3' TAAAAAAAAGTTTACTGCCATA 1981 TTTT
TT AATAT GTAAAACTTTTTTA
||||| |||||||||
TTATA CATTGGAAAAAAAT
CCGT

GAM36 KIAA0563 5' TAAAAAAAGGAGCAAAAGTAT 1565 AAAA
ATATTTTGTCCTTTTTA
||||||| |||||
TATGAAAACG GAAAAAAAT
AG_

GAM36 TAF2 3' AGAAAGTTGACAAAATA 997 A
TATTTTGTAACCTTTTTT
||||||| |||||
ATAAAAACATAAGA
G

GAM36 LOC147071 5' TAAAAAAAAGGAGCAAAAGTAT 2965 AAAA
ATATTTTGTCCTTTTTA
||||||| |||||
TATGAAAACG GAAAAAAAT
AG_

GAM36 LOC147639 5' AAAAGTGCTGCACAAATATT 3110 AA
AATATTTTGTA ACTTTTTT
||||||| |||||
TTATAAAAACGT TGAAAA
CG

GAM36 LOC201173 5' TAAAAAAAAGGAGCAAAAGTAT 3405 AAAA
ATATTTTGTCCTTTTTA
||||||| |||||

TATGAAAACG GAAAAAAAT
AG__
GAM36 LOC201220 5' TAAAAAAAAGGAGCAAAAGTAT 3406 AAAAA
ATATTTTGTT CTTTTTTA
||||||| |||||||
TATGAAAACG GAAAAAAAT
AG__
GAM37 MME 3' AAAAAAAAGTTACAGAAATA 785 AA
TATTTTGTA ACTTTTTT
||||||| |||||||
ATAAAGACAT TGAAAAAAA

GAM37 MME 3' AAAAAAAAGTTACAGAAATA 1377 AA
TATTTTGTA ACTTTTTT
||||||| |||||||
ATAAAGACAT TGAAAAAAA

GAM37 MME 3' AAAAAAAAGTTACAGAAATA 1378 AA
TATTTTGTA ACTTTTTT
||||||| |||||||
ATAAAGACAT TGAAAAAAA

GAM37 MME 3' AAAAAAAAGTTACAGAAATA 1379 AA
TATTTTGTA ACTTTTTT
||||||| |||||||
ATAAAGACAT TGAAAAAAA

GAM37 DKFZP434C212 3' AAAAAGTACACAGAAATATT 2832 AAA
AATATTTTGTT ACTTTTT
||||||| |||||||
TTATAAAGACA TGAAAAA
CA__

GAM37 FLJ11275 3' TAAAATGGGATTTATAAAAATA 1821 A TT
TT AATATTTTGTAACCTTTTA
||||||| || |||||
TTATAAAAATATT GG AAAAT
A GT

GAM37 GOLPH3 3' TAAAAAAAAGTTTACTGCCATA 1981 TTTT
TT AATAT GTAAAACTTTTTTA
||||| |||||||||||
TTATA CATTGGAAAAAAAT
CCGT

GAM37 KIAA0563 5' TAAAAAAAAGGAGCAAAAGTAT 1565 AAAAA
ATATTTTGTT CTTTTTTA
||||||| |||||||
TATGAAAACG GAAAAAAAT
AG__

GAM37 TAF2 3' AGAAAGTTGACAAAATA 997 A
TATTTTGTT AAACTTTTT
||||||| |||||||

ATAAAAAACA TTTGAAAGA
 G
 GAM37 LOC147071 5' TAAAAAAAAGGAGCAAAAGTAT 2965 AAAAA
 ATATTTTGTCCTTTTTA
 ||||||| |||||||
 TATGAAAACG GAAAAAAAT
 AG_

GAM37 LOC147639 5' AAAAGTGCTGCACAAATATT 3110 AA
 AATATTTTGTA ACTTTT
 ||||||| |||||
 TTATAAAAACGT TGAAAA
 CG

GAM37 LOC201173 5' TAAAAAAAAGGAGCAAAAGTAT 3405 AAAAA
 ATATTTTGTCCTTTTTA
 ||||||| |||||||
 TATGAAAACG GAAAAAAAT
 AG_

GAM37 LOC201220 5' TAAAAAAAAGGAGCAAAAGTAT 3406 AAAAA
 ATATTTTGTCCTTTTTA
 ||||||| |||||||
 TATGAAAACG GAAAAAAAT
 AG_

GAM38 MARK1 3' TATAATAAAACATGATTGCTTA 1857 TA TAC
 A TTA CGATC GTTTTATTATA
 ||| ||||| |||||||
 AAT GTTAG CAAAATAATAT
 TC TA_

GAM39 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
 TCAGAAAG AGGTT TATTTT
 ||||| ||||| |||||
 AGTCTTTT TTCGA ATAAAA
 A TC_

GAM39 KERA 3' AAAATATTGAATGCTTCT 1349 AG
 AGAAAAG GTTTAATATTTT
 ||||| ||||| |||||
 TCTTTC TAAGTTATAAAA
 G_

GAM39 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
 TCAGAAAGA GT TATTTT
 ||||| |||||
 GGTCTTTCT CA ATAAAA
 A TC_

GAM39 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
 GAAAGAGGTTT ATTTT
 ||||||| |||||
 CTTCTCCAAA TAAAA
 AGT

GAM39 DKFZP564I0422 3' AAAATATTGCATTCTTCTGAT 2196 A GTT
 ATCAGAA GAG TAATATTTT
 ||||| ||||| |||||

TAGTCCTT CTT GTTATAAAA
_ AC_

GAM39 EML4 3' AAAATGTTCCCTCTTCT 1876 TTT
AGAAAGAGGG AATATTT
|||||| |||||
TCTTCTCC TTGTAAAAA
T__

GAM39 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTT
|||||| |||||
TAGTC TCTC TTATAAAA
CG ATT_

GAM39 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
GAAAGAGGT TATTTT
|||||| |||||
CTTTCTCCA GTAAAAA
TG__

GAM39 SEMA3E 5' AAAATACAGCTTCTTCCTGA 1431 A TAA
TCAG AAGAGGGT TATTTT
|||||| |||||
AGTC TTCTCGA ATAAAAA
C C__

GAM39 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
CAGAAAG TTTAATATTTT
|||||| |||||
GTCTTC GAATTATAAAA
AATA

GAM39 LOC148145 5' AAAATATTAACCTGGACCTGA 3296 AAAG
T ATCAG AGGTTAACATTTT
|||||| |||||
TAGTC TCCAAATTATAAAA
CAGG

GAM40 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
TCAGAAAG AGGTT TATTTT
|||||| |||||
AGTCTTT TTCGA ATAAAAA
A TC__

GAM40 KERA 3' AAAATATTGAATGCTTCT 1349 AG
AGAAAG GTTTAATATTTT
|||||| |||||
TCTTTC TAAGTTATAAAA
G__

GAM40 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
|||||| || |||||
GGTCTTTCT CA ATAAAAA
A TC__

GAM40 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
GAAAGAGGGTTT ATTTT
|||||| |||||

CTTTCTCCAAA TAAAAA
AGT
GAM40 DKFZP564I0422 3' AAAATATTGCATTCTTGAT 2196 A GTT
ATCAGAA GAG TAATATTT
|||||| |||||||
TAGTCTT CTT GTTATAAAA
_ AC_
GAM40 EML4 3' AAAATGTTCTTCTTTCT 1876 TTT
AGAAAGAGG AATATTT
|||||| |||||||
TCTTCCTCC TTGTAAAA
T__
GAM40 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTT
|||||| |||||||
TAGTC TCTC TTATAAAA
CG ATT_
GAM40 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
GAAAGAGGT TATTTT
|||||| |||||||
CTTTCTCCA GTAAAA
TG__
GAM40 SEMA3E 5' AAAATACAGCTTCTTCTGA 1431 A TAA
TCAG AAGAGGTT TATTTT
|||||| |||||||
AGTC TTCTTCGA ATAAAA
C C__
GAM40 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG__
CAGAAAG TTTAATATTTT
|||||| |||||||
GTCTTC GAATTATAAAA
AATA
GAM40 LOC148145 5' AAAATATTAACCTGGACCTGA 3296 AAAG
T ATCAG AGGTTAATATTTT
|||||| |||||||
TAGTC TCAAATTATAAAA
CAGG
GAM41 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
TCAGAAAG AGGTT TATTTT
|||||| |||||||
AGTCTTTT TTCTGA ATAAAA
A TC__
GAM41 KERA 3' AAAATATTGAATGCTTCT 1349 AG
AGAAAG GTTTAATATTTT
|||||| |||||||
TCTTTC TAAGTTATAAAA
G__
GAM41 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
|||||| || |||||

GGTCTTTCT CA ATAAAAA
 A TC_

GAM41 S100B 3' AAAATTGAAAACCTCTTTC 1284 AAT
 GAAAGAGGTTT ATTTT
 ||||| |||||
 CTTCTCCAAA TAAAAA
 AGT

GAM41 DKFZP564I0422 3' AAAATATTGCATTCTTGAT 2196 A GTT
 ATCAGAA GAG TAATATTTT
 ||||| ||| |||||||
 TAGTCTT CTT GTTATAAAA
 _ AC_

GAM41 EML4 3' AAAATGTTCTCTCTTCT 1876 TTT
 AGAAAAGAGG AATATTTT
 ||||| |||||
 TCTTTCTCC TTGTAAAAA
 T_

GAM41 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
 ATCAG AGAG AATATTTT
 ||||| |||||
 TAGTC TCTC TTATAAAA
 CG ATT_

GAM41 KIAA1054 3' AAAATGGTACCTCTTTC 2820 TTAA
 GAAAGAGGT TATTTT
 ||||| |||||
 CTTCTCCA GTAAAAA
 TG_

GAM41 SEMA3E 5' AAAATACAGCTTCTCCTGA 1431 A TAA
 TCAG AAGAGGTT TATTTT
 ||||| |||||
 AGTC TTCTCGA ATAAAAA
 C C_

GAM41 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
 CAGAAAG TTTAATATTTT
 ||||| |||||||
 GTCTTTC GAATTATAAAA
 AATA

GAM41 LOC148145 5' AAAATATTAACCTGGACCTGA 3296 AAAG
 T ATCAG AGGTTAATATTTT
 ||||| |||||||
 TAGTC TCCAAATTATAAAA
 CAGG

GAM42 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
 TCAGAAAG AGGTT TATTTT
 ||||| |||||
 AGTCTTTT TTCGA ATAAAAA
 A TC_

GAM42 KERA 3' AAAATATTGAATGCTTCT 1349 AG
 AGAAAG GTTTAATATTTT
 ||||| |||||||

TCTTTC TAAGTTATAAAA
G_

GAM42 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
|||||| || |||||
GGTCTTCT CA ATAAAAA
A TC_

GAM42 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
GAAAGAGGTTT ATTTT
|||||| |||||
CTTTCTCCAAA TAAAAA
AGT

GAM42 DKFZP564I0422 3' AAAATATTGCATTCTCTGAT 2196 A GTT
ATCAGAA GAG TAATATTTT
|||||| |||||
TAGTCTT CTT GTTATAAAA
_ AC_

GAM42 EML4 3' AAAATGTTCCCTCTTCT 1876 TTT
AGAAAGAGG AATATTTT
|||||| |||||
TCTTCTCC TTGTAAAA
T_

GAM42 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTTT
|||||| |||||
TAGTC TCTC TTATAAAA
CG ATT_

GAM42 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
GAAAGAGGT TATTTT
|||||| |||||
CTTTCTCCA GTAAAAA
TG_

GAM42 SEMA3E 5' AAAATACAGCTTCTCCTGA 1431 A TAA
TCAG AAGAGGTT TATTTT
|||||| |||||
AGTC TTCTCGA ATAAAAA
C C_

GAM42 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
CAGAAAG TTTAATATTTT
|||||| |||||
GTCTTC GAATTATAAAA
AATA

GAM42 LOC148145 5' AAAATATTAACCTGGACCTGA 3296 AAAG
T ATCAG AGGTTAACATTTT
|||||| |||||
TAGTC TCAAATTATAAAA
CAGG

GAM43 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
TCAGAAAG AGGTT TATTTT
|||||| |||||

AGTCTTTT TTCTGA ATAAAAA
A TC_
GAM43 KERA 3' AAAATATTGAATGCTTCT 1349 AG
AGAAAG GTTTAATATTTT
||||| |||||
TCTTTC TAAGTTATAAAA
G_
GAM43 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
|||||| || |||||
GGTCTTTCT CA ATAAAAA
A TC_
GAM43 S100B 3' AAAATTGAAAACCTCTTTC 1284 AAT
GAAAGAGGTTT ATTTT
||||||| |||||
CTTTCTCCAAA TAAAAA
AGT
GAM43 DKFZP564I0422 3' AAAATATTGCATTCTTGAT 2196 A GTT
ATCAGAA GAG TAATATTTT
||||||| |||||
TAGTCTT CTT GTTATAAAA
_ AC_
GAM43 EML4 3' AAAATGTTCCCTCTTCT 1876 TTT
AGAAAGAGG AATATTTT
||||||| |||||
TCTTCTCC TTGTAAAA
T_
GAM43 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTTT
||||||| |||||
TAGTC TCTC TTATAAAA
CG ATT_
GAM43 KIAA1054 3' AAAATGGTACCTCTTTC 2820 TTAA
GAAAGAGGT TATTTT
||||||| |||||
CTTTCTCCA GTAAAAA
TG_
GAM43 SEMA3E 5' AAAATACAGCTTCTTCTGA 1431 A TAA
TCAG AAGAGGTT TATTTT
||||||| |||||
AGTC TTCTTCGA ATAAAAA
C C_
GAM43 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
CAGAAAG TTTAATATTTT
||||||| |||||
GTCTTTC GAATTATAAAA
AATA
GAM43 LOC148145 5' AAAATATTAACCTGGACCTGA 3296 AAAG
T ATCAG AGGTTAATATTTT
||||| |||||||

TAGTC TCCAAATTATAAAAA
CAGG

GAM44 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
TCAGAAAG AGGTT TATTTT
|||||| |||||
AGTCTTTT TTCGA ATAAAAA
A TC_

GAM44 KERA 3' AAAATATTGAATGCTTCT 1349 AG
AGAAAG GTTTAATATTTT
||||| |||||||
TCTTTC TAAGTTATAAAA
G_

GAM44 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
|||||| || |||||
GGTCTTCT CA ATAAAAA
A TC_

GAM44 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
GAAAGAGGTTT ATTTT
||||||| |||||
CTTCTCCAAA TAAAAA
AGT

GAM44 DKFZP564I0422 3' AAAATATTGCATTCTTGAT 2196 A GTT
ATCAGAA GAG TAATATTTT
||||||| |||||||
TAGTCTT CTT GTTATAAAA
_ AC_

GAM44 EML4 3' AAAATGTTCTCTCTTCT 1876 TTT
AGAAAGAGG AATATTTT
||||||| |||||||
TCTTCTCC TTGTAAAA
T_

GAM44 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTTT
||||| |||||
TAGTC TCTC TTATAAAA
CG ATT_

GAM44 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
GAAAGAGGT TATTTT
||||||| |||||
CTTCTCCA GTAAAAA
TG_

GAM44 SEMA3E 5' AAAATACAGCTTCTCCTGA 1431 A TAA
TCAG AAGAGGTT TATTTT
||| ||||||| |||||
AGTC TTCTCGA ATAAAAA
C C_

GAM44 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
CAGAAAG TTTAATATTTT
||||| |||||||||

GTCTTTC GAATTATAAAA
 AATA
 GAM44 LOC148145 5' AAAATATTAAACCTGGACCTGA 3296 AAAG
 T ATCAG AGGTTAATATTT
 ||||| |||||||||
 TAGTC TCCAAATTATAAAA
 CAGG

GAM45 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
 TCAGAAAG AGGTT TATTT
 ||||| |||||
 AGTCTTTT TTCGA ATAAAA
 A TC_

GAM45 KERA 3' AAAATATTGAATGCTTCT 1349 AG
 AGAAAG GTTTAATATTT
 ||||| |||||||
 TCTTTC TAAGTTATAAAA
 G_

GAM45 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
 TCAGAAAGA GT TATTT
 ||||| |||||
 GGTCTTCT CA ATAAAA
 A TC_

GAM45 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
 GAAAGAGGTTT ATTTT
 ||||| |||||
 CTTCTCCAAA TAAAA
 AGT

GAM45 DKFZP564I0422 3' AAAATATTGCATTCTTGAT 2196 A GTT
 ATCAGAA GAG TAATATTT
 ||||| |||||
 TAGTCTT CTT GTTATAAAA
 _ AC_

GAM45 EML4 3' AAAATGTTCTCTCTTCT 1876 TTT
 AGAAAGAGG AATATTT
 ||||| |||||
 TCTTCTCC TTGTAAAA
 T_

GAM45 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
 ATCAG AGAG AATATTT
 ||||| |||||
 TAGTC TCTC TTATAAAA
 CG ATT_

GAM45 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
 GAAAGAGGT TATTTT
 ||||| |||||
 CTTCTCCA GTAAAA
 TG_

GAM45 SEMA3E 5' AAAATACAGCTTCTCCTGA 1431 A TAA
 TCAG AAGAGGTT TATTTT
 ||||| |||||

		AGTC TTCTTCGA ATAAAAA	
		C C_	
GAM45	LOC130507	3' AAAATATTAAGATAACTTCTG 3011	AGG_
		CAGAAAG TTTAATATTTT	
		GTCTTC GAATTATAAAA	
		AATA	
GAM45	LOC148145	5' AAAATATTAACCTGGACCTGA 3296	AAAG
		T ATCAG AGGTTAACATTTT	
		TAGTC TCCAAATTATAAAA	
		CAGG	
GAM46	EFG1	3' TGTCTATCTCAACTCTATT 3661	ATC TC
		AATAGAGTT GAT AGACA	
		TTATCTCAA CTA TCTGT	
		CT_ _	
GAM46	PHYH	3' TCTGCTATAACTCTTCA 1281	T CGATT
		TGAA AGAGTTAT CAGA	
		ACTT TCTCAATA GTCT	
		_ TC_ _	
GAM46	SLC6A3	3' TGTCTGTTGACCAATCTCTATT 795	TTA_ TT
		CA TGAATAGAG TCGA CAGACA	
		ACTTATCTC AGTT GTCTGT	
		TAACC _	
GAM46	H2AV	3' TGCCTGACAATTAGCTCTATT 2447	TCGAT A
		A TGAATAGAGTTA TCAG CA	
		ACTTATCTCGAT AGTC GT	
		TAAC_ C	
GAM46	HMP19	3' GTCTGAACCGATATTCT 3408	T A
		AGAG TATCG TTCAGAC	
		TCTT ATAGC AAGTCTG	
		T C	
GAM46	KIAA1726	3' TGTCTGAAAGCAACCCCTACTC 2786	A A ATCGA
		GA TAG GTT TTCAGACA	
		CT ATC CAA AAGTCTGT	
		C C CGA_	
GAM47	SOX11	3' GTCTCACTGTTGATCAAACCT 992	A ATTTTT
		CT AGAGGTTT AT GTGAGAC	
		TCTTCAAAT A CACTCTG	
		C GTTTGT	
GAM47	CAP350	3' TCTTGTAAAGTTAACCTC 1554	ATTT TG
		GAGGTTAAC TTG AGA	

CTCCAAATTG AAT TCT
AT_ GT
GAM47 DKFZP564A022 3' TCTCACAAATATAAAAACC 2174 A TT
GGTTT ATATT TGTGAGA
|||||| |||||
CCAAA TATAA ACACCTCT
A _
GAM47 FLJ11730 3' CTCACAAAGATAAACATC 2005 G TAA
GA GTT TATTTTGAG
|| ||| |||||
CT CAA ATAGAAACACTC
A _
GAM47 FLJ20686 5' CTCACAGTCCTACTGAACCTC 1765 A TTT
GAGGTTTA TA TTGTGAG
|||||| || |||||
CTCCAAGT AT GACACTC
C CCT
GAM47 FRSB 3' GTCCCAGGGAGATATTAGACCT 1236 G A
CT AGAGGTTTAATATTTTGAC
|||||| |||||
TCTCCAGATTATAGAGG AC CTG
G C
GAM47 KIAA1600 3' ACAAAAAGACTAAACCTCT 2919 ATA
AGAGGTTTA TTTTG
|||||| |||||
TCTCCAAAT AAAAACCA
CAG
GAM47 LOC124801 3' GTCTCACATTTGGCCCAAACCT 2996 AATATTTT
C GAGGTTT TGTGAGAC
|||||| |||||
CTCCAAA ACACCTCTG
CCCGGTTT
GAM47 LOC221035 3' TCCCAGTATTAAACCT 3593 TTTTG A
AGGTTTAATAT TG GA
|||||| |||||
TCCAAATTATG AC CT
— C
GAM47 LOC51611 3' CGAAAATTAAACCTCT 1653 AT
AGAGGTTTAAT TTTTG
|||||| |||||
TCTCCAAATTA AAAGC
—
GAM48 AXUD1 3' TTTATTCCATTTCTCTCT 2309 GA
AGAGAGAAA GAATAAA
|||||| |||||
TCTCTCTTT CTTATT
AC
GAM48 BSN 3' ATTTTTCTTTGTTCTCTCT 1024 G T
AGAGAGAAA AGAA AAAAAT
|||||| |||||

TCTCTCTTT TTTT TTTTTA
G C

GAM48 DPYSL2 3' AATATTTCGTGTCTGTC 822 A GA TA
T AGAGAGA AGA A AAAATATT
||||| ||| | |||||
TCTCTCT TCT T TTTTATAA
G G_GC

GAM48 EVA1 3' AATGTGTTACTCTCTTCCTT 1250 A A A
C GAG GAAAGAGA TAAA ATATT
||||| |||||
CTT CTTCTCT ATTG TGAA
C C G

GAM48 PTMS 3' TTTGCTCTCTTCTCCCT 959 A A
AG GAGAAAGAGA TAAA
|||
TC CTCTTCTCT GTTT
C C

GAM48 SELE 3' TTTTGTGGCTTCTTTCTTCT 748 AGA
AGAGAGAAAG ATAAAAA
|||||
TCTTCTTCT TGTTTT
GG_

GAM48 SLC7A6 3' AATATTTTGACCTTCTCCT 1076 A AGA
AG GAGAAAG ATAAAAATATT
|||
TC CTCTTTC TGTTTTATAA
- CA_

GAM48 TGFBR2 5' TTCTTCTAGTTCTTCT 1003 AG T
AGAGAGAA AGAA AAA
|||
TCTTCTT TCTT TTT
GA C

GAM48 DKFZP586N0721 5' TTTTATTCCCTTCCCT 1627 A A
AGAG GAAAG GAATAAAA
|||
TCTC CTTTC CTTATTT
- C

GAM48 DKFZp761J139 5' TTTATTCTCTGTCTCT 2242 GAA
AGAGA AGAGAATAAA
|||
TCTCT TCTCTTATTT
GTC

GAM48 FLJ10468 3' TTTTATTCTCCCTTTC 1779 AAA
GAGAG GAGAATAAAA
|||
CTTTC CTCTTATTT

GAM48 FLJ20485 3' AATATTTTAAATCTCCCTTC 1874 AAA A_
T AGAGAG GAGA TAAAAATATT
|||||

TCTTTC CTCT ATTTTATAA
 AAA
GAM48 H2BFQ 3' ATATTTACTCTTCTGTC 2523 G AATAA
 GA AGAAAGAG AAATAT
 || ||||| |||||
 CT TCTTCTC TTTATA
 G A_____
GAM48 KIAA0077 3' TTTTATTCTCTCCCTTT 2774 A A
 AGAG GA AGAGAATAAAA
 |||| |||||||||
 TTTC CT TCTCTTATTT
 C C
GAM48 KIAA0295 3' TTTTTCCCTTCTCTCT 2807 A T
 AGAGAGAAAG GAA AAA
 ||||||| |||||
 TCTCTCTTC CTT TTT
 C T
GAM48 KIAA0828 3' AATATTTGCCTTCTTCTTC 3195 AATA
 T AGAGAGAAAGAG AAAATATT
 ||||||| |||||
 TCTTCTTCTT TTTTATAA
 CCG_
GAM48 KIAA1203 3' AATATTTTATTCTTGAGTTAT 2921 GAGAAA
 CT AGA GAGAATAAAAATATT
 ||| |||||||||
 TCT TTCTTATTTTATAA
 ATTGAG
GAM48 OSBPL8 3' TTTTATTATCCTCCTCT 1928 AAA G
 AGAGAG GA AATAAAAA
 ||||| |||||
 TCTCTC CT TTATTTT
 CTC A
GAM48 PAK6 3' AATATTTTAGATTCTCTGCT 1897 _ A AA
 C GAG AGAA GAG TAAAAATATT
 ||| ||| |||||||
 CTC TCTT CTT ATTTTATAA
 G _ AG
GAM48 POLR3F 3' AATATTTCACTGTTCCCTTCTT 2547 A A ____
 TCT AGAGAGAA G GAATA AAAATATT
 ||||| |||||
 TCTTCTT C CTTGT TTTTATAA
 __ CAC
GAM48 RNF11 3' TTTATTCTCTTCTTCT 1495 G
 AGA AGAAAGAGAATAAA
 ||| |||||
 TCT TCTTCTCTTATTT
 —
GAM48 SLC16A6 5' TTTATTCTCTTCCCTTCT 1143 AGA
 AGAG AAGAGAATAAA
 ||| |||||

TCTT TTCTCTTATTT
 CCC
 GAM48 LOC144321 3' TTTTATTCCCTTCTCTC 3267 AA
 GAGAGAA G GAATAAAA
 ||||| | |||||
 CTCTCTT C CTTATTTT
 _ C

GAM48 LOC150951 5' ATATTTTTATTTCTTCCT 3336 A
 AG AAGAGAATAAAAATAT
 || |||||||||
 TC TTCTTTATTTTATA
 C

GAM48 LOC199920 5' AATATTTTTATTCTTGATTCT 3435 AA
 T GAGAG AGAGAATAAAAATATT
 ||||| |||||||||
 TTCTT TTCTTATTTTATAA
 AG

GAM48 LOC256435 3' AATATTTTAAATGTTGTCTCT 3675 AAGAGAA
 CT AGAGAGA TAAAAATATT
 ||||| |||||
 TCTCTCT ATTTTTATAA
 GTTGTAA

GAM49 ADAMTS5 3' TATTTTCACAACACTTCTCT 1352 _ AATA_
 CT AGAGAGAAAG AG AAAATA
 ||||| || |||||
 TCTCTCTTC TC TTTTAT
 A AACAC

GAM49 ADAT1 3' TATTCCCAGGCCTTCTTC 1404 A_____
 GAAGAGAGAAAG GAATA
 ||||| || |||||
 CTTCTTTCTTC CTTAT
 CGACC

GAM49 ADCY2 3' TTTTATTTCTGTCTTC 2711 G AAA
 GAAGA AG GAGAATAAAA
 ||||| || |||||
 CTTCT TC CTTTATTTT
 G __

GAM49 AHR 3' ATTTTTGTTACTCTCTTC 840 _ A
 GAAGAGAG AA GAGAAT
 ||||| || |||||
 CTTCTCTC TT TTTTTA
 A G

GAM49 BSN 3' ATTTTTCTTTGTTCTCTCT 1025 G T
 AGAGAGAAA AGAA AAAAAT
 ||||| |||||
 TCTCTCTT TTTT TTTTTA
 G C

GAM49 BSN 3' TCTCCCCCTTCTCTTC 1026 ____
 GAAGAGAGAAA GAGA
 ||||| || ||

CTTCTCTCTTT CTCT
CCCC

GAM49 C7 3' TATTCCTTATTCCTCTTT 756 _ A
GAAGAGAGA AAG GAATA
||||||| |||||
TTTCTCTTT TTC CTTAT
A _

GAM49 CFTR 3' TATTCCTTTCTCTCCTC 753 A _
GA GAGAGAAAGAG AATA
|| ||||| |||||
CT CTCTCTTTTC TTAT
C C

GAM49 CHD2 3' ATATTTTTCTGATCCCCCACT 813 AA_ GAAT_ III
CTCTCTTC AGA GA AAAATA T
||| || ||||| |
TCT CT TTTTAT A
CACCCC AGTCT III

GAM49 CKN1 3' TATTTTATTCTTCTTC 703 AG
GAAGAGAGAA AGAATA
||||||| |||||
CTTCTTTCTT TTTTAT
A_

GAM49 CTH 5' TGTTCTTTCCCTCTCTTC 867 A
GAAGAGAG AAGAGAATA
||||||| |||||
CTTCTCTC TTTTCTTGT
C

GAM49 EVA1 3' ATTTTTATTTTATGTCTCTC 1251 AA_
GAGAGA GAGAATAAAAAT
||||| |||||||
CTCTCT TTTTATTTTA
GTA

GAM49 FBXL11 3' TTGTTCCCCCTCTCTCTT 1426 AAGA
GAAGAGAGA GAATAA
||||||| |||||
TTTCTCTCT CTTGTT
CCCC

GAM49 GATA3 3' TATTTCCCTCTCTC 893 A A
GA GAGAGAA GAGAATA
||||||| |||||
CT CTCTCTT CTTTAT
- C

GAM49 GDI2 5' TTTCCCTCTCTTCTCTT 832 AT
GAGAGAAAGAGA AAAA
||||||| |||||
TTCTCTTCTCT TTTT
CC

GAM49 HD 3' ATTCTCCCTCTCTCTT 899 A_
GAAGAGAGAA GAGAAT
||||||| |||||

TTTCTCTCTT CTCTTA
 CC
 GAM49 HTR2C 3' TATTTTGCTCTCCCTCCCTTC 781 A AAA A
 GAAG GAG GAGA TAAAAATA
 ||||| ||||| |||||
 CTTC CTC CTCT GTTTTAT
 C C_ C
 GAM49 LGR6 3' TTCTCTCCCCCTCTCTTC 3302 A_
 GAAGAGAG AAGAGAA
 ||||| |||||
 CTTCTCTC TTCTCTT
 CCC
 GAM49 LRP8 3' TCTCTTATTTCTCTTTTC 2326 —
 GAAGAGAGAA AGAGA
 ||||||| |||||
 CTTTTCTCTT TCTCT
 TAT
 GAM49 LRP8 3' TCTCTTATTTCTCTTTTC 1139 —
 GAAGAGAGAA AGAGA
 ||||||| |||||
 CTTTTCTCTT TCTCT
 TAT
 GAM49 MEF2C 5' TTTTTTTCTCTCTCTCTCT 926 _ A T
 C GA AGAGAGA AGAGAA AAAAA
 ||||||| |||||
 CT TCTCTCT TCTCTT TTTTT
 C C T
 GAM49 MSR1 3' TATTTTGTTCTCTCT 929 —
 AGAGAGAAA GAGAATA
 ||||||| |||||
 TCTCTCTT TTTTTAT
 GG
 GAM49 PCDH11X 3' TATTTCACATTTCTCTCT 2299 —
 AGAGAGAAA GAGAATA
 ||||||| |||||
 TCTCTCTT CTTTTAT
 TACA
 GAM49 PCDH11X 3' TATTTCACATTTCTCTCT 2301 —
 AGAGAGAAA GAGAATA
 ||||||| |||||
 TCTCTCTT CTTTTAT
 TACA
 GAM49 PCDH11Y 3' TATTTCACATTTCTCTCT 2303 —
 AGAGAGAAA GAGAATA
 ||||||| |||||
 TCTCTCTT CTTTTAT
 TACA
 GAM49 PCMT1 3' TATCTCTGCTCTTCTTC 1205 A_ GA
 GAAGAGAGA AGA ATA
 ||||||| ||| ||

CTTCTTTCT TCT TAT
CG TC
GAM49 PCNA 3' TATTTTTTTCTCTATTCT 939 G
GAA AGAGAAAGAGAATA
||| |||||||||
CTT TCTCTTTTTTAT
A
GAM49 PRELP 3' ATTCGTTTCTCTCTCTC 950 _ A
GA AGAGAGAAAG GAAT
||| |||||||||
CT TCTCTCTTT CTTA
C G
GAM49 PTMS 3' TTTGCTCTCTTCTCCCT 958 A A
AG GAGAAAGAGA TAAA
||| |||||||||
TC CTCTTCTCT GTTT
C C
GAM49 SLC4A4 3' TATTTTATTCTCTTAAGTCTT 1054 GAGA
T GAAGA AAGAGAATAAAAATA
||||| |||||||||
TTTCT TTCTCTTATTTTAT
GAA_
GAM49 TRPS1 5' TATTCCTTCTCTTCTCT 1471 TAA
AGAGAGAAAGAGAA AAATA
||||| |||||
TCTCTCTTCTCTT TTTAT
TCC
GAM49 ARS2 5' TTTTGTTCGCCTCTCTTC 1650 AAAGA
GAAGAGAG GAATAAAA
||||| |||||
CTTCTCTC CTTGTTTT
CG__
GAM49 BRD4 3' TATTTTAATTCTCTCTTC 2368 A_
GAAGAGAGAA GAGAATA
||||| |||||
CTTCTCTCTT TTTTAT
AA
GAM49 CAPN13 3' TATTTACCTGCCTCTCTTC 2485 AA __
GAAGAGAG AG AGAATA
||||| |||||
CTTCTCTC TC TTTTAT
CG CA
GAM49 CECR6 3' TTACCCCTCTCCTCTCTTC 2218 AA AA
GAAGAGAG AGAG TAA
||||| |||||
CTTCTCTC TCTC ATT
C_ CC
GAM49 DKFZP434I0714 5' TTTTGTTTCCCCCTCTTC 3362 AGAAA
GAAGAG GAGAATAAAA
||||| |||||||||

CTTCTC TTTTGTTTTT
 CCCC_
 GAM49 DKFZP564G092 5' TATTCCCTTTCTTTC 1639 A A
 GAAGAGAGA AG GAATA
 ||||| |||||
 CTTTCTTT TC CTTAT
 C _
 GAM49 DKFZp564K142 3' TATCCTCTAACCTCTTC 2231 A__ A
 GAAGAGAG AAGAG ATA
 ||||| |||||
 CTTCTCTT TTCTC TAT
 CCAA C
 GAM49 DKFZp566D234 3' TATTTTTCTCTGTC 2612 AG
 GA AGAGAAAGAGAATA
 || |||||||||
 CT TCTCTTTTTTAT
 G_
 GAM49 DKFZP566I1024 3' TTTTAAAATCTATTCTCTC 2878 _ GAA
 GAGAGAA AGA TAAAA
 ||||| |||||
 CTCTCTT TCT ATTTT
 A AAA
 GAM49 EPI64 3' TATTTGACATCTCTCTCTT 3681 A GAATA
 C GAAGAGAGA AGA AAAATA
 ||||| |||||
 CTTCTCTCT TCT TTTTAT
 C ACAG_
 GAM49 FLJ00012 3' TATTTTATCTCTATCTCCT 2985 A A A
 AG GAGA AGAGA TAAAAATA
 || |||| |||||
 TC CTCT TCTCT ATTTTTAT
 - A -
 GAM49 FLJ10460 3' ATTTTATTCTACCTTTC 1778 AAAG
 GAGAG AGAATAAAAT
 ||||| |||||||
 CTTTC TCTTATTTTA
 CA__
 GAM49 FLJ10687 3' TTTATTCAATTCTCTCCTC 1793 A GA
 GA GAGAGAAA GAATAAA
 ||||| |||||
 CT CTCTCTT CTTATTT
 C A_
 GAM49 FLJ10738 3' TATTTTACTCTCCCTCTTC 1799 AGAAA A
 GAAGAG GAGA TAAAAATA
 ||||| |||||
 CTTCTC CTCT ATTTTTAT
 C__ C
 GAM49 FLJ13158 3' TTCTCTCCCTTCTTC 2109 A__
 GAAGAGAGA AGAGAA
 ||||| |||||

CTTCTCTTT TCTCTT
CCC

GAM49 FLJ20294 5' TATTCCTGTCTCCCTCTT 1747 _ A A
GAAGAG AGA AG GAATA
|||||| |||||
TTTCTC TCT TC CTTAT
C G _

GAM49 FLJ21657 3' TATTCTACTTCTCTCTTC 1991 AG
GAAGAGAGAA AGAATA
|||||||
CTTCTCTCTT TCTTAT
CA

GAM49 GT650 3' TATTCTGATTCTCCCTCTCTT 2341 AAA AA_
C GAAGAGAG GAGAAT AAATA
||||||| |||||
CTTCTCTC CTCTTA TTTAT
C_ GTC

GAM49 HEY2 3' TATTCTCTTTTTCTC 1420 AG
GA AGAGAAAGAGAATA
|| |||||||||
CT TTTTTCTCTTAT
CT

GAM49 HIC2 3' ATTTTTTTCTCTCTCTT 2717 A T
GAAGAGAGA AGAGAA AAAAT
||||||| |||||
CTTTCTCT TCTTTT TTTTA
C _

GAM49 HOOK3 3' ATTTTGAGGACTTTTCTCTCT 2249 AATA_
AGAGAGAAAGAG AAAAT
||||||| |||||
TCTCTCTTTC TTTTA
AGGAG

GAM49 IL1RAPL1 5' TATTCTTATTTCCCTCTCTT 1488 AAA A
T GAAGAGAG GAGAATAA AATA
||||||| |||||
TTTCTCTC CTTTTATT TTAT
CC_ C

GAM49 KALI 3' TTTTGTCTTGTCCCTCTC 2347 AAA_
GAGAG GAGAATAAAA
|||||||
CTCTC TTCTTGTTT
CCTG

GAM49 KIAA0077 3' TTTTATTCTCTCCCTTT 2773 A AA
GAAG GAGA GAGAATAAAA
|||||||
TTTC CTCT CTCTTATTTT
C _

GAM49 KIAA0089 3' ATTTTAGCCTTTCTCTTC 2873 A AA
GAAGAGAGAA GAG TAAAAAT
||||||| |||||

CTTCTCTTT CTC ATTTTA
 _ CG
 GAM49 KIAA0286 3' TATTTCACCCCTTTTC 2814 AAA
 GAAGAGAG GAGAATA
 |||||||
 CTTTCTC CTTTAT
 CCA
 GAM49 KIAA0295 3' TTTTTCCCTTCTCT 2808 A T
 AGAGAGAAAG GAA AAA
 ||||||| |||||
 TCTCTCTTC CTT TTT
 C T
 GAM49 KIAA0342 3' TATTCTCATTACTTCTCTT 2890 __ A
 GAAGAGA G AA GAGAATA
 ||||| | || |||||
 TTTCTCT C TT CTCTTAT
 T A A
 GAM49 KIAA0564 3' TATTTTATTTCTCCCTGCTC 2743 _ AA
 GAG AG AGAGAATAAAAATA
 ||| || |||||||||
 CTC TC TCTTTATTTTAT
 G CC
 GAM49 KIAA0630 3' TATTTTTAAAAGTCTTCTCT 3465 GAAT__
 CT AGAGAGAAAGA AAAAATA
 ||||||| |||||
 TCTCTCTTCT TTTTAT
 GAAAAT
 GAM49 KIAA0662 3' TGTTCTCTCTCTCTT 3215 A
 GAAGAGAGA AGAGAATA
 ||||||| |||||
 TTTCTCTCT TCTCTTG
 C
 GAM49 KIAA0830 3' TTTGCTCTCTTCTCCT 2866 A _
 AG GAGAAAGAGAA TAAA
 || ||||||| |||||
 TC CTCTTCTCTT GTTT
 _ C
 GAM49 KIAA0964 3' ATTCTTATGTTTCTCTTTC 1579 GA A
 GAAGAGAGAAAGA ATAA AAT
 ||||||| |||||
 CTTTCTCTTTT TATT TTA
 G_ C
 GAM49 KIAA1076 3' TATTTTTGCTTCTCTC 2723 AGAAT
 GAGAGAAAG AAAAATA
 ||||||| |||||
 CTCTCTTC TTTTAT
 GT__
 GAM49 KIAA1181 3' ATTCCCTCTCCTCTTC 2817 A _
 GAAGAGAG AAGAG AAT
 ||||||| |||||

CTTCTCTC TTCTC TTA
C C
GAM49 KIAA1319 3' TATTTTGCTTCCTCCTTC 1925 A GA
GAGAG AAGA ATAAAAATA
|||||| |||||
CTTTC TTCT TGTTTTAT
C TC
GAM49 KIAA1522 3' ATTCTCTGACCTTCCTCT 2708 _____
AGAGAGAA AGAGAAT
|||||| |||||
TCTCTCTT TCTCTTA
TCCAG
GAM49 KIAA1906 3' ATTTTATTCTCTGCTT 2971 AA
GAG AGAGAATAAAAAT
||| |||||||||
TTC TCTCTTATTTTA
G_

GAM49 MAPK6 5' TATTTTCTTCTCCCTT 952 A AG
GAAG GAGAA AGAATA
|||||| |||||
TTTC CTCTT TTTTAT
C CT

GAM49 MGC13138 3' TATTTTATTCTTGACCTC 2332 AGAAA_
GAG GAGAATAAAAATA
||| |||||||||
CTC TTCTTATTTTAT
CCAGTG

GAM49 MGC2742 5' TATTCCTTTCTCTTC 2040 AG
GAAGAGAGAAAG AATA
||||||| |||||
CTTCTCTTTT TTAT
CT

GAM49 MGC32043 3' TATTCCTGTTTCTCTT 2486 _ A
GAAGAGAGAA AG GAATA
||||||| |||||
TTTCTCTTT TC CTTAT
G _

GAM49 NFAT5 3' TATCCCTTTCTCTTC 2452 A
GAAGAGAGAAAG GAATA
||||||| |||||
CTTCTCTTTTC CTTAT
C

GAM49 OSBPL8 3' TTTTATTATCCTCCTCTTC 1929 AAA G
GAAGAGAG GA AATAAAAAA
|||||| | |||||
CTTCTCTC CT TTATTTT
CTC A

GAM49 RAB10 3' TGTTCTGCTTTCTCCTC 3337 A AG _
GA GAG AAAG AGAATA
|| ||| |||||

CT CTC TTTC TCTTGT
 C CT G
 GAM49 RANBP1 3' TATTTCTTTCTCTCTTT 969 —
 GAAGAGAG AAAGAGAATA
 ||||| |||||
 TTTCTCTC TTTCTTTAT
 CT
 GAM49 RASSF2 3' TATTTCACAAATCCTCTTC 1537 AAA__
 GAAGAGAG GAGAATA
 ||||| |||||
 CTTCTCTC CTTTAT
 CTAACA
 GAM49 STK22D 3' TATTTCATCAGCTTCTCT 2226 AG AATA__
 CT AGAGAGAA AG AAAATA
 ||||| |||||
 TCTCTCTT TC TTTTAT
 CT GACTAC
 GAM49 SYNJ2 3' ATTTTAGGTTTCTCTTC 2606 AGAGAA
 GAAGAGAGAA TAAAAAT
 ||||| |||||
 CTTCTCTTT ATTNTTA
 GG__
 GAM49 TBLR1 3' TATTCTTTTCCCTTC 2079 A
 GAAG GAGAAAGAGAATA
 ||||| |||||
 CTTC CTTTTTTCTTAT
 C
 GAM49 TM9SF1 3' TATTGCTGTTCTCTCCCTTCT 1296 AA AA
 TC GAAGAGAG AGAGAATA AATA
 ||||| ||||| |||||
 CTTCTTTC TCTCTTGT TTAT
 CC CG
 GAM49 ULK2 3' TATTCTATCCTCTCCTCTTC 1523 _ AAG_
 GAAGAG AGA AGAATA
 ||||| |||||
 CTTCTC TCT TCTTAT
 C CCTA
 GAM49 UNC5D 3' TTATTCTTCTTCCTCTTC 2393 A __
 GAAGAG GAA AGAGAATAA
 ||||| |||||
 CTTCTC CTT TTTCTTATT
 _ C
 GAM49 LOC121219 5' TTATTAACCTCCTCTCTCTTT 2988 A __
 GAAGAGAGAA GAG AATAA
 ||||| |||||
 TTTCTCTCTT CTC TTATT
 C AA
 GAM49 LOC128077 3' ATTTGTTTCTCTTCTTCTT 3006 A TAA
 C GA GAGAGAAAGAGAA AAAT
 ||||| |||||

CT CTTTCTTCCTT TTTA
C TTG
GAM49 LOC143451 3' TTCTCTCCTTCTCTTC 3058 —
GAAGAGAGAA AGAGAA
||||||| |||||
CTTCTCTCTT TCTCTT
CC
GAM49 LOC145125 3' TTCTCTCCTTCTCTTC 3075 —
GAAGAGAGAA AGAGAA
||||||| |||||
CTTCTCTCTT TCTCTT
CC
GAM49 LOC149351 3' ATTTTCAGATCTTCTCTT 3131 GAAT
AGAGAGAAAGA AAAAAT
||||||| |||||
TTTCTCTTCTT TTTTA
AGAC
GAM49 LOC149722 5' TATTCTTTCTTCTCTTC 3312 A
GAAGAGAGA AGAGAATA
||||||| |||||
CTTCTCTT TTTCTTAT
C
GAM49 LOC149837 5' TATTCCGTCTTCTCTCT 3318 —
AGAGAGAAAGA GAATA
||||||| |||||
TCTCTCTTCTT CTTAT
GTC
GAM49 LOC150054 3' TATTCTGTCTTCTCCTC 3323 — —
GAG AGAAAGA GAATA
||| ||||| |||||
CTC TCTTCTT CTTAT
C GT
GAM49 LOC150150 5' TTTTGTGCCTCTCTTCTTC 3324 AA A_
GAAGAGAGA GAG ATAAAA
||||||| ||| |||||
CTTCTTCTT CTC TGTTTT
— CG
GAM49 LOC150225 3' TATTTTGTCCCTCTTC 3327 A G
GAAGAG GAAA AGAATA
||||| ||||| |||||
CTTCTC CT TT TTTAT
C G
GAM49 LOC152816 3' TATTTTATCCTAACCTCTT 3364 AAA A
GAGAG GAG ATAAAAATA
||| ||| ||||| |||||
TTCTC CTC TATTTTAT
CAA C
GAM49 LOC155038 3' ATTGCGTTCTCTTCTTC 3198 A TAAA
GAAG GAGAAAGAGAA AAT
||| ||||| |||||

CTTC CTCTTCTCTT TTA
—
TGCG

GAM49 LOC158629 3' TATTTTCTTCCCTCTC 3394 A A
GA GAG GAAAGAGAATA
|| ||| |||||
CT CTC CTTTCTTTAT
— C

GAM49 LOC158943 3' TATTTTCTTCCCTCTCTT 2572 —
GAAGAGAG AAAGAGAATA
||||| |||||
TTTCTCTC TTTCTTTAT
CT

GAM49 LOC170082 3' ATTCTTTCCCCTCTCTTC 3254 —
GAAGAGAGA AAGAGAAT
||||| |||||
CTTTCTCT TTTCTTA
CCCC

GAM49 LOC199920 5' TATTTTATTCTTGATTCTTC 3436 AGAA
GAAGAG AGAGAATAAAAATA
||||| |||||
CTTCTT TTTCTTATTTTAT
AG__

GAM49 LOC219667 3' ATTTTGTTATCTCTCTTC 3516 AAGAG
GAAGAGAGA AATAAAAAT
||||| |||||
CTTCTCTC TTGTTTTA
A__

GAM49 LOC220279 5' TATTTCTTCCCCTACCTCTCT 3653 A__
TC GAAGAGAG AAGAGAATA
||||| |||||
CTTCTCTC TTCTTTAT
CATCCCC

GAM49 LOC221830 3' TATTTCTTTCTTCTTC 3567 —
GAAGAGAGAA GAGAATA
||||| |||||
CTTCTTCTTT CTTTAT
T

GAM49 LOC222166 3' ATTTTACCTCTCTCTT 3635 AG__
GAAGAGAGAA AGAAT
||||| |||||
TTTCTCTCTT TTTTA
CCA

GAM49 LOC254440 3' TTCTCTCCTCTCTTC 3729 —
GAAGAGAGAA AGAGAA
||||| |||||
CTTCTCTCTT TCTCTT
CC

GAM49 LOC51123 3' ATTTTATGCTGTTCCCTCTT 2571 A AG A
AAGAG GAA AG ATAAAAAT
||||| |||||

TTCTC CTT TC TATTTTA
 C G_ G
 GAM49 LOC51596 5' TATTTCCAAGTTCTCTCTC 1651 A _____
 GA GAGAGAAA GAGAATA
 ||||||| |||||
 CT CTCTCTT CTTTAT
 - GAAC

GAM49 LOC84570 5' TTTCGTTTCCCTCTCTTC 2257 AA TA
 GAAGAGAGA GAGAA AAA
 ||||| ||||| |||
 CTTCTCTCT CTTTT TTT
 C_ GC

GAM49 LOC92710 5' TATTTTATGCCTCTGTCTC 2885 A A_
 GAGA AGAG ATAAAAATA
 ||||| |||||
 CTCT TCTC TATTTTAT
 G CG

GAM50 FANCF 3' GTCCCTTAAAGCATTGA 1997 ATATAT
 TCAATGTTTAAA GGAC
 ||||||| |||||
 AGTTACGAAATT CCTG
 C_____

GAM50 GPR65 5' TCCACCCTTAAAGCATTGA 2544 A TATA
 TCAATGTTT AAA TGGA
 ||||| |||||
 AGTTACGAAA TTT ACCT
 A CCC_

GAM50 LMNB1 3' TGTCCATACACTTGTTGCA 1226 TT ATA
 TGT TAAA TATGGACA
 ||||| |||||
 ACG GTTT ATACCTGT
 TT CAC

GAM50 MEN1 5' CATAATATTTAAAACATT 3600 -
 AATGTTTAAAATAT ATG
 ||||||| |||||
 TTACAAAATTTATA TAC
 A

GAM50 PLAG1 3' TGTCCATATACCAAGATTTAAA 944 A_____
 TATT AATGTTTAAA TATATGGACA
 ||||||| |||||
 TTATAAAATT ATATACTGT
 AGACC

GAM50 S100A11 3' TGTCACTTTTAAACATGA 1231 A TATATG
 TCA TGTTTAAA GACA
 ||||| ||||| |||||
 AGT ACAAAATTT CTGT
 - TTCA_____

GAM50 SLC9A6 3' TCCAGTTAGAACATTGA 1290 AATATA
 TCAATGTTTAA TGGA
 ||||| |||||

AGTTACAAGATT ACCT
G_____

GAM50 SOD2 3' TCCATATACTTGGGGACTTG 766 T TA _
CAA GTTT AAA TATATGGA
||||||| |||||
GTT CAGG TTT ATATACCT
_ GG C

GAM50 BIRC2 5' TATATTTTAAAACATTGA 2784 T
TCAATGTTTAAAG ATATG
||||||| |||||
AGTTACAAAATTT TATAT

GAM50 CXorf1 5' TGTCCATAGAAAAAATATT 1145 AAAATA
AATGTTT TATGGACA
||||||| |||||
TTATAAAA ATACCTGT
AAG_____

GAM50 KIAA0367 3' TGTCCCACAATGCCTTAAACAT 2787 AAATATAT_
TGA TCAATGTTTTA GGACA
||||||| |||||
AGTTACAAAAT CCTGT
CCGTAACAC

GAM50 KIAA1321 3' TCCTTGAGCTTAAAGCATTGA 2627 ATATAT
TCAATGTTTAAA GGA
||||||| |||
AGTTACGAAATT CCT
CGAGTT

GAM50 KIAA1718 3' TGTATTTAAAATATTGA 2686
TCAATGTTTAAATATA
|||||||
AGTTATAAAAATTTATGT

GAM50 KIAA1789 5' TGTCCCTGCCCTAGAACATTG 2781 AAAATATAT
A TCAATGTTT GGACA
||||||| |||||
AGTTACAAAG CCTGT
ATCCCGTC_

GAM50 PRO2964 3' CAAGTATTTAAAACACTG 1842 A A
CA TGTTTAAATAT TG
|||
GT ACAAAATTTATG AC
C A

GAM50 SLC17A6 3' TGTCCATACACAGAACAT 1912 AAAATA
ATGTTT TATGGACA
||||| |||||
TACAAAG ATACCTGT
ACAC_____

GAM50 TRAF3 5' CATTATTTAAAACGTTGA 2542 T_
TCAATGTTTAAATA ATG
||||||| |||

AGTTGCAAAATTTAT TAC
 TT
 GAM50 LOC151361 3' TGTCTGTGTTTAAAC 3344 T
 GTTTAAAA ATATGGACA
 ||||| |||||
 CAAAATTT TGTGTCTGT

GAM50 LOC158714 3' TCCACACATTAAAACATTGA 3224 ATATA
 TCAATGTTTAA TGGA
 ||||| |||||
 AGTTACAAAATT ACCT
 ACAC_

GAM50 LOC219667 3' TATACCTAGAACATTGA 3518 AA
 TCAATGTTTAA TATA
 ||||| |||||
 AGTTACAAGATT ATAT
 CC

GAM50 LOC91565 3' TCCATTTAAAACATT 2749 ATAT
 AATGTTTAA ATGGA
 ||||| |||||
 TTACAAAATT TACCT

GAM51 C1orf1 5' TATGCTGACAGAAGAACCA 809 CC A A
 TGGTTCTTT GT CA CATA
 ||||| |||||
 ACCAAGAAC CA GT GTAT
 A_ _ C

GAM51 LRAT 3' AGTATGCATACATAAAAGCAAC 2556 _ CC_ CAA
 CA TGGTT CT TT GTA CATACT
 ||||| |||||
 ACCAA GAAA CAT GTATGA
 C ATA AC_

GAM51 MYBL1 3' AGTATGTTATACAAATGCCA 2679 TCTTC C
 TGGT GTA AACATACT
 ||||| |||||
 ACCG CAT TTGTATGA
 TAAA__ A

GAM51 KIAA1028 3' TATGTCTGCATTGAAAAGAACCC 3547 C TA_ _
 A TGTTCTTT CG CA ACATA
 ||||| |||||
 ACCAAGAAA GT GT TGTAT
 A TAC C

GAM51 MGC2488 3' TGTAGTGGAAAGAACAT 2045 G _
 ATG TTCTTCG TACA
 ||||| |||||
 TAC AAGAAAGGT ATGT
 G G

GAM52 CX3CR1 3' ACTGCCTACTGCATCGAGTCA 2891 TCCCTTAA
 TGACTCG TAGGCAGT
 ||||| |||||

		ACTGAGC	ATCCGTCA		
		TACGTC			
GAM52	WNT14	3' CTGCAAGGGACGAGTC	1014	AATAG	
		GACTCGTCCCTT	GCAG		
		CTGAGCAGGGAA	CGTC		
<hr/>					
GAM52	FLJ20275	3' TACTGCCTTCATAAGATCAAGT	1745	CGTCC	AT_
		CA	TGACT	CTTA	AGGCAGTA
		ACTGA	GAAT	TCCGTCAT	
		ACTA_	ACT		
GAM52	FLJ22390	5' TACTGCCTATCAAACG	2002	CCC	A
		CGT	TT ATAGGCAGTA		
		GCA	AA TATCCGTCAT		
		___ C			
GAM53	LOC120864	5' CAAGGTCCAAACTGATATAA	2986	CGTAG	
		TTGTATCAGTTT	TCTTG		
		AATATAGTCAAA	GGAAC		
		CCT_			
GAM54	KIAA0626	3' AACATCAGGGTGCAGAATTGAT	1954	C_	A_
		ATCGATTC	CAT	TGATGTT	
		TAGTTAAC	GTG	ACTACAA	
		AC	GG		
GAM54	KIAA1239	3' AACATCATGATTATTGATG	2914	TCCCC	
		CATCGAT	TATGATGTT		
		GTAGTTA	GTACTACAA		
		TTA_			
GAM54	LOC201475	5' AACATCATATATTTGATGTTA	3428	TTCCC	
		TAACATCGA	ATATGATGTT		
		ATTGTTAGTT	TATACTACAA		
		TTA_			
GAM55	ARCN1	3' CCCATTTCCCTCCAGTCA	844	GAAGT	CA
		TGATTGGA	AGGAAA	GG	
		ACTGACCT	TCCTTT	CC	
		___ AC			
GAM55	CTSK	3' TCCTACTTTGCTTCTCCACC	736	AT	_____
		CA	TG	TGGAGA	AGTAGGA
		AC	ACCTCT	TCATCCT	
		CC	CTTCGTT		
GAM55	HMG20A	3' TCCTATTTCCCTGCCATCA	1800	T__	A
		TGAT	GG	GAAGTAGGA	

ACTA CC CTTTATCCT
 CCGT _
 GAM55 PRDM2 3' TCCTGTTCCCACCCAG 1415 AGAA A
 TTGG GT GGAAACAGGA
 ||| |||||||||
 GACC CA CCTTTGTCT
 __ C
 GAM55 RNMT 3' CCTGCCTATCCTCTCGATCA 1060 A_ AAA
 TGATTGGAGA GTAGG CAGG
 ||||||| ||||| III
 ACTAGCCTCT TATCC GTCC
 CC __
 GAM55 SCAP1 3' TCCCACCTCCACTTCTGCCA 1052 _ AAACA
 TGG AGAACAGTAGG GGA
 ||| ||||||| III
 ACC TCTTCATCC CCT
 G CTCAC
 GAM55 USH3A 5' CCTATTTATTCATCCATCA 2355 T AAC
 TGAT GGAGAACAGTAGGA AGG
 |||| ||||||| III
 ACTA CCTCTTTATTT TCC
 __ A__
 GAM55 VAT1 3' TCCTGTTCCACCTCCTCTC 1292 TA __
 C GGAGAACAGGA
 ||||||| |||||||
 CCTCTTC CCTTTGTCT
 CTCCAC
 GAM55 AIF1 5' CCTGCTGAAAACCCTCCAGTCA 2297 A __
 TGATTGGAG AGTAGG
 ||||||| III|||
 ACTGACCTC TCGTCC
 CCAAAAG
 GAM55 CPLX1 3' CCTGTTCTCCTCCATTCA 1317 T AAGTA
 TGA TGGAG GGAAACAGG
 ||| ||||| |||||||
 ACT ACCTC TCTTGTC
 T C __
 GAM55 CXYorf1 3' CCTGTTCCCCCACCTCCGGCTC 3228 _ A A A A
 GA TTGG GA GT GG AACAGG
 ||||||| ||||| III|||
 CT GGCC CT CA CC TTGTCC
 C _ C C C
 GAM55 FLJ12221 3' CCCACCCCTGCTCTCCAATTA 2637 A AAACA
 TGATTGGAGA GTAGG GG
 ||||||| ||||| II
 ATTAACCTCT CGTTC CC
 __ CCAC __
 GAM55 FLJ20207 3' CCTGCCCTGCTCCCCACCCA 1741 AT A AAA
 TG TGG GAAGTAGG CAGG
 ||| ||||||| III

		AC ACC CTTCGTCC GTCC		
		CC C C_		
GAM55	FLJ22215	3' CCTGCCCCCTACCCCTGTTCTCC 3715	AAA	
		GGAGAA GTAGG CAGG		
		CCTCTT CATCC GTCC		
		GTCC CCC		
GAM55	FLJ31547	3' TCCCATAATTCTCCCGCAATC 2511	A	A
		A TGATT GGAGAAGT GGA		
		ACTAA CCTCTTTA CCT		
		CGC ATAC		
GAM55	HSCBCIP1	3' TCCTACCTATGTCTTCTCCAAT 3449		AAAC
		ATTGGAGAAG TAGG AGGA		
		TAACCTCTTC ATCC TCCT		
		TGT A		
GAM55	KIAA0515	5' TCCTACCAGAACTCCTCCGATC 2670	A A	AAAC
		A TGATTGGAG AGT GG AGGA		
		ACTAGCCTCTCA CC TCCT		
		C AGA A		
GAM55	KIAA1514	3' CCTGCTCAACTTCTCCA 1877	A	AAA
		TGGAGAAGT GG CAGG		
		ACCTCTTCA CT GTCC		
		A C		
GAM55	KIAA1553	3' TCCTCACTTCTCCATCCA 3544	AT	-
		TG TGGAGAAGT AGGA		
		AC ACCTCTTCA TCCT		
		CT C		
GAM55	KIAA1656	3' CCCACTTCCCTCCAGTCA 2730		A
		TGATTGGA GAAGT GG		
		ACTGACCT CTTCA CC		
		TC C		
GAM55	KIAA1877	3' CCTACCTTATTTCTCCAGCCA 2741	AT	AAAC
		TG TGGAGAAGTAGG AGG		
		AC ACCTCTTATTTC TCC		
		CG CA		
GAM55	MTCH1	3' CCCGTCTACCCCTCCAGTCA 1493	AA	AAACA
		TGATTGGAG GTAGG GG		
		ACTGACCTC CATCT CC		
		CC GC		
GAM55	N-PAC	3' CCGCCCTCACCCCTCCAATC 2902	AA	_ AAACA
		GATTGGAG GT AGG GG		

CTAACCTC CA TCC CC
 CC C CG
 GAM55 SEMA4B 5' CCTGTTCCCCACCTCC 2839 AA A
 GGAG GT GGAAACAGG
 |||| |||||||
 CCTC CA CCTTTGTCC
 _ C

GAM55 SPRY1 3' CCTGTTCCCACCTCTCT 2709 TA_
 GGAGAAG GGAAACAGG
 ||||| |||||||
 TCTCTTC CCTTTGTCC
 CAC

GAM55 WS-3 5' CCTGCCAGGCTCTCCAATC 1312 A A_ AAA
 GATTGGAGA GT GG CAGG
 ||||||| || || |||
 CTAACCTCT CG CC GTCC
 _ GA_

GAM55 LOC123242 5' TCTGTACCTTCTCCATCCA 3030 AT TAGGAA
 TG TGGAGAAG ACAGG
 || ||||||| |||||
 AC ACCTCTTC TGTCT
 CT CA_

GAM55 LOC127702 3' CCTGCCAACACTTCTCCAAC 3024 A A_ AAA
 A TG TTGGAGAAGT GG CAGG
 || ||||||| || |||
 AC AACCTCTTCA CC GTCC
 A ACA C_

GAM55 LOC146745 5' TCCTGCCACCATTCTCCAACC 3099 A A AAA
 A TG TTGGAGAAGT GG CAGGA
 || ||||||| || |||||
 AC AACCTCTTCA CC GTCCT
 C _ ACC

GAM55 LOC147791 3' CCCATCCCTAACCTCCAATC 3294 AAG A CA
 GATTGGAG TAGG AA GG
 ||||| ||||| |||
 CTAACCTC ATCC TT CC
 CA_ C AC

GAM55 LOC196892 3' TCCTGGTGATTCTTCTCCAATC 3417 TAGGAAA
 A TGATTGGAGAAG CAGGA
 ||||| |||||
 ACTAACCTCTTC GTCCT
 TTAGTG_

GAM55 LOC200093 3' CCTGTTCCCCACCTCCGGCTC 2648 _ A A A A
 GA TTGG GA GT GG AACAGG
 || |||| || || |||||
 CT GGCC CT CA CC TTGTCC
 C _ C C C

GAM55 LOC201243 5' TCCTGCCACCATTCTCCAACC 3426 A A AAA
 A TG TTGGAGAAGT GG CAGGA
 || ||||||| || |||||

AC AACCTCTTA CC GTCCT
 C _ ACC
 GAM55 LOC219404 3' CCTGCTCCCTACTTCCTGGCA 3606 A TG A AAA
 TG T G GAAGTAGG CAGG
 ||| | ||||| |||
 AC G C CTTCATCC GTCC
 _ GT_ CTC
 GAM55 LOC222066 3' TCCTGCAAACCACCTTCTCCAA 3574 TA AAA_
 TCA TGATTGGAGAAG GG CAGGA
 ||||||| || |||||
 ACTAACCTCTTC CC GTCCT
 CA AAAC
 GAM55 LOC253001 5' TCTGTACCTTCTCCATCCA 3698 AT TAGGAA
 TG TGGAGAAG ACAGG
 || | ||||| |||||
 AC ACCTCTTC TGTCT
 CT CA_____
 GAM55 LOC91040 3' CCTGTTCCCCCACCTCCGGCTC 2700 _ A A A A
 GA TTGG GA GT GG AACAGG
 || | ||| || | |||||
 CT GGCC CT CA CC TTGTCC
 C _ C C C
 GAM56 GCNT2 5' TCTCGGGATGAAACGGAATCGA 831 _____ A
 TCGATTCCGT CC AGA
 ||||||| || |||
 AGCTAAGGCA GG TCT
 AAGTAG C
 GAM56 BLP1 3' TTACCTTGCAGACGGAATGA 2222 G ____ A
 TC ATTCCGTC CAAG TGA
 || | ||||| || | |||
 AG TAAGGCAG GTTC ATT
 _ AC C
 GAM56 BLP1 3' TTACCTTGCAGACGGAATGA 2371 G ____ A
 TC ATTCCGTC CAAG TGA
 || | ||||| || | |||
 AG TAAGGCAG GTTC ATT
 _ AC C
 GAM56 LOC143914 5' TCACTCAAACGGAATCGA 3062 CCA A
 TCGATTCCGT AG TGA
 ||||||| || | |||
 AGCTAAGGCA TC ACT
 AAC _
 GAM56 LOC253891 5' CACTGGGACGGAATCGG 3654 A A
 TCGATTCCGTCC AG TG
 ||||||| || | |||
 GGCTAAGGCAGG TC AC
 G _
 GAM57 ADSS 3' GAAACAAATGATGAAAACAT 2925 CCTGTT
 ATGT TCATTTGTTTC
 ||| | ||||||| |

		TACA	AGTAAACAAAG		
		AAAGT_			
GAM57	CASP6	3' GAAACAAAATCCTCAGGAAATT	2305	G	TTTCA
	A	TAAT TCCTG	TTTGTTTC		
		ATTA AGGAC	AAACAAAG		
		A TCCTA			
GAM57	CASP6	3' GAAACAAAATCCTCAGGAAATT	810	G	TTTCA
	A	TAAT TCCTG	TTTGTTTC		
		ATTA AGGAC	AAACAAAG		
		A TCCTA			
GAM57	CKTSF1B1	3' AAGTGGATAAACAGAACATT	1445	C	C TG
		AATGT CTGTTT ATT TTT			
		III			
		TTACA GACAAA TAG GAA			
		A _ GT			
GAM57	F2R	3' AAACAATGCAGTACAGGACAT	879	TTCAT_	
		ATGTCCTGT	TTGTTT		
		TACAGGACA	AACAAA		
		TGACGT			
GAM57	GPRK7	3' GGAAACAAATGTTCTGACATT	2476	CTGTTT	
		AATGTC	CATTTGTTCC		
		TTACAG	GTAAACAAAGG		
		TCTTT_			
GAM57	NLGN1	3' AAACAAATGAGATGGAC	1591	T	
		GTCC GTTTCATTGTTT			
		CAGG TAGAGTAAACAAA			
GAM57	APC10	5' GGAAACTGTAAACAGGACATT	1574	T	TTT
		AATGTCCTGTT CA	GTTTCC		
		TTACAGGACAA GT	CAAAGG		
		T _			
GAM57	C20orf139	3' GGAACAAAAACAGGACATTA	3319	CAT	
		TAATGTCCTGTTT TTGTTTC			
		ATTACAGGACAAA AACAGG			
GAM57	FLJ11186	3' GAAGCCCCGAAACAAGACATTA	1818	C	ATTT
		TAATGTC TGTTTC	GTTTC		
		ATTACAG ACAAG CGAAG			
		A CC_			
GAM57	FLJ22116	5' GGAATTGCGGAAAACAGGAC	2073	CA	_
		GTCCTGTTT TTTGT TTCC			

CAGGACAAA AGGCG AAGG
 — TT

GAM57 FLJ32978 3' AAACAAATGAAATCAACA 2487 CCT
 TGT GTTCATTGTTT
 ||| |||||||||
 ACA TAAAGTAAACAAA
 AC_

GAM57 KIAA1164 3' GGAAACAAAACAAAACAAAAC 2862 CC CA_
 GT TGTTC TTTGTTCC
 ||| ||||| |||||
 CA ACAAA AACAAAGG
 AA ACA

GAM57 KIAA1762 3' AAAGAGAGAACGGACA 2668 T A G
 TGTCC GTTTC TTT TTT
 ||||| ||||| |||||
 ACAGG CAAAG AGA AAA
 — — G

GAM57 KIAA1918 5' GAAAGGAGACAGAACATTA 2969 C ATTTG
 TAATGT CTGTTTC TTTC
 ||||| ||||| |||||
 ATTACA GACAGAG AAAG
 A G_

GAM57 POPX1 3' GGAAACAAACTTCAGGTCA 1583 T TTTCA
 TG CCTG TTTGTTCC
 ||| ||||| |||||
 AC GGAC AACAAAGG
 T TTC_

GAM57 PRO0800 3' AAACAAAGAGACAGGAATTA 1852 G A
 TAAT TCCTGTTTC TTTGTTT
 ||||| ||||| |||||
 ATTA AGGACAGAG AAACAAA

GAM57 LOC142779 3' GGAGTAACAAAATAGGACATTA 3050 CATT —
 TAATGTCCTGTTT TGTT TCC
 ||||| ||||| |||||
 ATTACAGGATAAA ACAAA AGG
 — — TG

GAM57 LOC143274 5' GGAAACAAACAAAAAGGA 3053 G CA
 TCCT TTT TTTGTTCC
 ||| |||||
 AGGA AAA AACAAAGG
 — AC

GAM57 LOC154089 3' AAACAAATACTGAGACAG 3186 —
 CTGTTCA TTTGTTT
 ||||| |||||
 GACAGAGT AAACAAA
 CAT

GAM57 LOC169679 3' AGCATATGAAGACAGGACAT 3404 — T
 ATGTCCTGTTT CAT TGTT
 ||||| |||||

TACAGGACAGA GTA ACGA
 A T
 GAM57 LOC202052 5' GAAACAAATACCCAGAAGACA 3484 __ TTTC
 TGTC CTG ATTTGTTTC
 ||||| |||||
 ACAG GAC TAAACAAAG
 AA CCA_

GAM57 LOC256021 3' GAAACGAGAACAAATGACATTA 3708 C_ CAT
 TAATGTC TGTTT TTGTTTC
 ||||| |||||
 ATTACAG ACAAG AGCAAAG
 TA __

GAM57 LOC91650 5' AAACAAAACATCTCAGGACAT 2765 TTTCA_
 ATGTCCTG TTTGTTT
 ||||| |||||
 TACAGGAC AAACAAA
 TCTACA

GAM57 LOC91752 5' AAGTCAAATAAACAGGACA 2777 C _
 TGTCCTGTTT ATTTG TTT
 ||||| |||||
 ACAGGACAAA TAAAC GAA
 A T

GAM58 DRD1 3' ATTAACCTCGTTCCAAATACA 774 GCTCCT
 TGTAT AGCGGAGTTAAT
 ||||| |||||||||
 ACATA TTGCCTCAATTAA
 AACCT_

GAM58 KIAA0182 3' AAGTCCTAGGAGCACACA 2931 A GC G
 TGT TGCTCCTA GGA TT
 ||||| |||||
 ACA ACGAGGAT CCT AA
 C G

GAM58 SSH2 3' AGCCCCAGGAGCATACA 2626 AGC A
 TGTATGCTCCT GG GTT
 ||||| |||||
 ACATACGAGGA CC CGA
 C__ _

GAM58 LOC90918 5' ATTAAATCCAGGAACATATA 2687 C AGC G
 TGTATG TCCT GGA TTAAT
 ||||| |||||
 ATATAC AGGA CCT AATTA
 A A

GAM59 EHHADH 3' TATGAATCATACATACACTC 877 TCTC_
 GGGTGTAT ATTCTATA
 ||||| |||||
 CTCACATA TAAGTAT
 CATAC

GAM59 ADAM9 3' TATGAATGAAAACAAAACACC 1063 A C__
 GGTGT TT TCATTCTATA
 ||||| |||||_

			CCACA AA	AGTAAGTAT		
			A CAAA			
GAM59	BCAR3	3'	ATGAATGAAAAATACATCT	1036	C	
			GGGTGTATT TCATTCAT			
			TCTACATAA AGTAAGTA			
			A			
GAM59	XAP135	5'	AATGGGCCACCTGATGA	1809	TATTC	
			TCATCGGGTG	TCATT		
			AGTAGTCCAC	GGTAA		
			C	_____		
GAM59	XAP135	5'	AATGGGCCACCTGATGA	2408	TATTC	
			TCATCGGGTG	TCATT		
			AGTAGTCCAC	GGTAA		
			C	_____		
GAM59	LOC252983	5'	ATGAATAAAAATACATCTACTG	3668	TC	CTC
			CA GGGGTATT ATT CAT			
			GT TCTACATAA TAAGTA			
			CA AAA			
GAM60	MGC5242	5'	CCTTACAATCCGAGACTA	2042	—	
			TGGTCTCGGATT AGG			
			ATCAGAGCCTAA TCC			
			CAT			
GAM60	LOC197259	3'	GCCAATCAAGACCAGAA	3422	CG A	
			TTCTGGTCT GATT GGC			
			AAGACCAGA CTAA CCG			
			A_ _			
GAM61	DKFZP564I052	3'	ATGGATGAAGATGATGACCGAT	2759	A _ ATA	
			ATCG TCAT ATCT TCATCCAT			
			TAGC AGTA TAGA AGTAGGTA			
			C G	_____		
GAM61	KIAA0825	3'	ATGGACAATACTATTGGTCGAT	2588	TATCTA CA	
			ATCGATCA TAT TCCAT			
			TAGCTGGT ATA AGGTA			
			TATC AC	_____		
GAM61	KIAA0976	3'	ATGATGTATATTATCGAT	1588	C TC	
			ATCGAT ATA TATATCAT			
			TAGCTA TAT ATGTAGTA			
			T	_____		
GAM61	PLAC3	3'	ATGGAAGGGGAAATGATAGA	2853	G CTATA A	
			ATC ATCATAT TC TCCAT			

		TAG TAGTATA	GG AGGTA		
		A AAGG_ A			
GAM61	LOC147991	5' ATGTATATAGATATGATC	3115	-	
		GATCATATCTATAT CAT			
		CTAGTATAGATATA GTA			
		T			
GAM62	HDAC7A	3' CTCTGGCAAAGTCTCAA	1628	CTT	
		TTGAAGACT CCAGAG			
		AACTTCTGA GGTCTC			
		AAC			
GAM62	HDAC7A	3' CTCTGGCAAAGTCTCAA	1700	CTT	
		TTGAAGACT CCAGAG			
		AACTTCTGA GGTCTC			
		AAC			
GAM62	LTBP1	3' TCTCAAATGAAAAAGTCTTCGA	764	C C __	
		TTGAAGACT TT CA GAGA			
		AGCTTCTGA AA GT CTCT			
		A A AAA			
GAM62	PDGFB	3' CTGGGAGAAGGTCTCAA	941	A __	
		TTG AGAC TCTTCCAG			
		AAC TCTG AGAGGGTC			
		C GA			
GAM62	PRDM4	3' CTTACAGAAGAGTCTCTAA	1427	A CA_	
		TTG AGACTCTTC GAG			
		AAT TCTGAGAAG TTC			
		C ACA			
GAM62	SIRT6	3' TTCTGGAAAAGTCCTCAA	1695	A C	
		TTGA GACT TTCCAGAG			
		AACT CTGA AAGGTCTT			
		C A			
GAM62	XYLB	3' TCTCTGGAAGAATTCCAA	1187	A C	
		TTG AGA TCTTCCAGAGA			
		AAC TTT AGAAGGTCTCT			
		C A			
GAM62	DKFZP434N093	3' TGTAACAGAAGGTCTCAA	3147	T CAGAG	
		TTGAAGAC CTTC ACG			
		AACTTCTG GAAG TGT			
		_ ACAAA			
GAM62	DKFZP547E1010	5' TTTCCAGAAGGGTCTCAA	2768	A CA	
		TTG AGACTCTTC GAGA			

AAC TCTGGGAAG CTTT
C AC
GAM62 DKFZP547E1010 5' TTTCCAGAAGGGTCTCAA 1640 A CA
TTG AGACTCTTC GAGA
||| ||||| |||
AAC TCTGGGAAG CTTT
C AC
GAM62 FLJ13942 3' TTGAGATGGAAGAGTCTTAA 2067 GAGA
TTGAAGACTCTCCA CGA
||||||| |||
AATTCTGAGAAGGT GTT
AGA_
GAM62 FLJ14596 3' TCATCTGGAGTCCCCAA 2282 AA TT _
TTG GACTC CCAGA GA
||| |||| |||||
AAC CTGAG GGTCT CT
CC _ A
GAM62 HRLP5 3' TTCTGGAAGAACATCTACAA 2364 A C
TTG AGA TCTTCCAGAG
||| ||| |||||
AAC TCT AGAAGGTCTT
A A
GAM62 KCNS1 3' CGTTGGAAGAGTCTT 917 GAG
AAGACTCTCCA ACG
||||||| |||
TTCTGAGAAGGT TGC

GAM62 KIAA0992 5' TCTCTGGAGTCTCAA 1662 TCT
TTGAAGAC TCCAGAGA
||||||| |||||
AACTTCTG AGGTCTCT

GAM62 KIAA1975 5' TATCATCTCTGGAAAGTTGAGAG 2982 A _____ C |||
CCTCCAA G CTCT TCCAGAGA GAT A
| ||| ||||| ||| |
C GAGA AGGTCTCT CTA T
C GTTGA A III
GAM62 MGC5590 3' TCTCAGAAAGTCTCAA 2049 C CA
TTGAAGACT TTC GAGA
||||||| |||||
AACTTCTGA AAG CTCT
_ A_
GAM62 SIAT8C 5' TCTTGGAAGAACATCTCAA 1648 A C G
TTGA GA TCTTCCA AGA
||| || ||||| |||
AACT CT AGAAGGT TCT
_ A _
GAM62 LOC149706 3' ATCACCTCTGGAGGCCCTTCA 3313 ACTC AC
TGAAG TTCCAGAG GAT
||||| ||||| |||

		ACTTT GAGGTCTC CTA	
		CCC_ CA	
GAM62	LOC160292 3'	CTCTGGAAAGCCTCAA	3399 A C
		TTGAAG CT TTCCAGAG	
		AACTTC GA AAGGTCTC	
		C _	
GAM62	LOC203378 3'	GTTTCTAAAGAGTCTCAA	3491 CC
		TTGAAGACTCTT AGAGAC	
		AACTTCTGAGAA TCTTG	
		A_	
GAM62	LOC204200 5'	CTCTGGAAAGGTCTCCAA	3493 A TC
		TTG AGAC TTCCAGAG	
		AAC TCTG AAGGTCTC	
		C GA	
GAM62	LOC255265 5'	CGTACGGAAAAGTCTCA	3672 C AGAG
		TGAAGACT TTCC ACG	
		ACTTCTGA AAGG TGC	
		A CA_	
GAM63	FLJ10737 3'	AGATGTTTTATTTATATTAT	1797 TCCCA_
		TA TAATAATATAAAAT ATCT	
		ATTATTATATTTTA TAGA	
		TTTTTG	
GAM64	COX15 3'	AACAGTCCCAGAACATGACCCC	1104 C AAATC T
		TGGGGTTA TCT GCT GTT	
		ACCCCCAGT AGA TGA CAA	
		A CCC_ _	
GAM64	SH2D1A 3'	AACAAGCCTCCTTTAAAGTAA	920 C TC_
		CCCTA TGGGGTTACT TAAA GCTTGTT	
		ATCCAATGA ATTT CGAACAA	
		A TCCTC	
GAM64	FLJ12994 3'	ACAAGCAAATGTAACCTCCA	2017 TCTAAATC
		TGGGGTTAC GCTTGT	
		ACCTCAATG CGAACAA	
		TAAA_	
GAM64	FLJ12994 3'	ACAAGCAAATGTAACCTCCA	3081 TCTAAATC
		TGGGGTTAC GCTTGT	
		ACCTCAATG CGAACAA	
		TAAA_	
GAM65	FGFR2 3'	ACCCTGTCAATTACGTCAACGC	712 _ _
		GCGT GGC AATGACAGGGT	

			CGCA CTG TTACTGTCCCA			
			A CA			
GAM65	FGFR2	3'	ACCCCTGTCATTACGTCAACGC	2023	- -	
			GCGT GGC AATGACAGGGT			
			CGCA CTG TTACTGTCCCA			
			A CA			
GAM65	FGFR2	3'	ACCCCTGTCATTACGTCAACGC	2024	- -	
			GCGT GGC AATGACAGGGT			
			CGCA CTG TTACTGTCCCA			
			A CA			
GAM65	FGFR2	3'	ACCCCTGTCATTACGTCAACGC	2026	- -	
			GCGT GGC AATGACAGGGT			
			CGCA CTG TTACTGTCCCA			
			A CA			
GAM65	FGFR2	3'	ACCCCTGTCATTACGTCAACGC	2027	- -	
			GCGT GGC AATGACAGGGT			
			CGCA CTG TTACTGTCCCA			
			A CA			
GAM65	FGFR2	3'	ACCCCTGTCATTACGTCAACGC	2028	- -	
			GCGT GGC AATGACAGGGT			
			CGCA CTG TTACTGTCCCA			
			A CA			
GAM65	MMP19	5'	ACCAAGGCTGCCACGCTCTAA	2010	T	ATGACAG
			TTAG AGCGTGGCA GGT			
			III			
			AATC TCGCACCGT CCA			
			CGGAA_			
GAM66	ARHGEF12	3'	AATAATGTCATTCTCAATTAA	1619	TA	
			TTAATTG AATGATATTATT			
			AATTAAC TTACTGTAATAA			
			TC			
GAM66	OS4	3'	AATATTTGTATTACTTACAATT	1239	A	TAT
		AA	TTAATTGTA TGATAT TATT			
			III			
			AATTAACATT ATTATG ATAA			
			C TTT			
GAM66	LOC148289	3'	AATAATAACATATACAATTAA	3300	A	A
			TTAATTGTA ATG TATTATT			
			AATTAACAT TAC ATAATAA			
			A A			
GAM66	LOC253160	3'	AATAATAACATATACAATTAA	3714	A	A
			TTAATTGTA ATG TATTATT			

AATTAACAT TAC ATAATAA
 A A

GAM67 GAN 3' TGAGTGTGGTACATTAACT 1975 A CA _
 AG TAA TACCACAC CA
 ||||| ||||| |||
 TC ATT ATGGTGTG GT
 A AC A

GAM67 IDH3A 3' AAAGAGTGAATGTGGTATATT 1222 TAAC C_
 CT AGA ATACCACA CATTTTT
 ||||| ||||| |||||
 TCT TATGGTGT GTGAGAAA
 TTA_ AA

GAM67 PEX1 3' AAAAAATGGTGTCTATGAATT 749 TAA_ CC
 CT AGA CATA ACACCATTTTT
 ||||| ||||| |||||
 TCT GTAT TGTGGTAAAAAA
 TTAA C_

GAM67 PYGO2 3' AAAAATTGGGATATGTTATCT 2676 CCACA T
 AGATAACATA CCA TTTTT
 ||||| ||| |||||
 TCTATTGTAT GGT AAAAA
 AG__ T

GAM67 FLJ21477 3' TGGCGTGAGATGTTATCT 2142 AC A
 AGATAACAT CAC CCA
 ||||| ||| |||||
 TCTATTGTAT GTG GGT
 GA C

GAM67 NS1-BP 3' AAAAAATGGTGTTTATCT 2953 CATACC
 AGATAA ACACCATTTTT
 ||||| ||||| |||||
 TCTATT TGTGGTAAAAAA
 T_____

GAM67 UNC5D 5' AAAAAAGCTGTAATATGTTATC 2391 CC CCA
 T AGATAACATA ACA TTTTTT
 ||||| ||| |||||
 TCTATTGTAT TGT AAAAAA
 AA CG_

GAM67 LOC257451 3' AAAAATTGGGATATGTTATCT 3678 CCACA T
 AGATAACATA CCA TTTTT
 ||||| ||| |||||
 TCTATTGTAT GGT AAAAA
 AG__ T

GAM68 CHAC 3' TGCCCCATATGTCCATTAT 1612 AGAT
 ATAAGTGGACATAT GCA
 ||||| ||||| |||
 TATTTACCTGTATA CGT
 CC_

GAM68 GGCX 3' CTGCACCCCTGCCACTTGT 778 A TATAGA
 ATAAGTGG CA TGCAG
 ||||| ||| |||||

TGTCACC GT ACGTC
 _ CCC __
 GAM68 ITPKB 3' TCTGCATCTGTCCAC 911 TATA
 GTGGACA GATGCAGA
 ||||| |||||
 CACCTGT CTACGTCT

 GAM68 KCNAB1 3' TCTAACATGTTATGTCCACTTA 2584 _____
 TAAGTGGACATA TAGA
 ||||||| |||||
 ATTCACCTGTAT ATCT
 TGTA

GAM68 KLRC4 5' CTGTCAAAATATACACCACTTA 1451 ACA GA_ _
 T ATAAGTGG TATA TG CAG
 ||||| ||| |||||
 TATTCACC ATAT AC GTC
 AC_ AAA T

GAM68 MLF2 3' TCTGCATCTACTGACTTG 1212 _ ACATA
 TAAGT GG TAGATGCAGA
 ||||| || |||||
 GTTCA TC ATCTACGTCT
 G _____

GAM68 NR1I2 3' TCTGCATCCATTGAACAC 1067 GA T A
 GTG CA AT GATGCAGA
 ||| ||| |||||
 CAC GT TA CTACGTCT
 AA T C

GAM68 NR1I2 3' TCTGCATCCATTGAACAC 1971 GA T A
 GTG CA AT GATGCAGA
 ||| ||| |||||
 CAC GT TA CTACGTCT
 AA T C

GAM68 CEP3 3' TTCTACATCAGATGTTGTCACT 1304 ATA C
 TAT ATAAGTG GACAT GATG AGAA
 ||||| ||||| |||||
 TATTCAC TTGTA CTAC TCTT
 TG GA_ A

GAM68 FHX 3' TCATGGATCATGTCCAC 1825 ATA G _
 GTGGACAT GAT CA GA
 ||||| ||| |||
 CACCTGTA CTA GT CT
 _____ G A

GAM68 FLJ10352 3' TTCTGCATCTACAACTCAACAT 2233 GACATA_ _
 TTA TAAGTG TAGATGCAGAA
 ||||| |||||
 ATTTAC ATCTACGTCTT
 AACTCAAC

GAM68 FLJ22127 3' TCGAGTCCATATGTCCAC 2008 A GCA
 GTGGACATAT GAT GA
 ||||||| ||| ||

CACCTGTATA CTG CT
C AG_

GAM68 GDAP1L1 3' TCTGCATCCATGCCAC 2043 A ATA
GTGG CAT GATGCAGA
|||||| |||||
CACC GTA CTACGTCT
_ C_

GAM68 H-L(3)MBT 3' TCTGCTCTACCCACT 2230 ACA T T
AGTGG TA AGA GCAGA
|||| |||||
TCACC AT TCT CGTCT
C_ C _

GAM68 KIAA1340 3' TCTAACGCTATGCCCATTTAT 2846 A ____
ATAAGTGG CATA TAGA
|||||| |||||
TATTTACC GTAT ATCT
C CGA

GAM68 KNSL7 3' TTCTGCATCCATATACACCCT 1905 T AC_ A
AG GG ATAT GATGCAGAA
|| || |||||
TC CC TATA CTACGTCTT
_ ACA C

GAM68 P5-1 3' CTCCATTATGTACCCAC 1322 AC C
GTGG ATATAGATG AG
|||| |||||
CACC TGTATTTAC TC
CA C

GAM68 PP1044 5' CTGCATCTTACCTATATCCAT 1956 C T_____
TTA TAAGTGGA ATA AGATGCAG
|||||| |||||
ATTTACCT TAT TCTACGTC
A CCATT

GAM68 SIRPB1 3' TGCATGTGTCCACTTA 1272 ATAG
TAAGTGGACAT ATGCA
|||||| |||||
ATTCACCTGTG TACGT

GAM68 LOC148811 3' CTGCATCTCTCCCCCTTA 3126 T CATAT
TAAG GGA AGATGCAG
|||||| |||||
ATTC CCT TCTACGTC
C C_

GAM68 LOC149711 3' TCCATATGTCTATCCACTTA 3315 _____ A
TAAGTGGA CATAT GA
|||||| |||||
ATTCACCT GTATA CT
ATCT C

GAM68 LOC150630 5' CTGCATCTCTGCCACT 3332 A TAT
AGTGG CA AGATGCAG
|||| || |||||

TCACC GT TCTACGTC
 _ CT_

GAM68 LOC150819 5' CTGCATTTAGTCCA 3333 ATAT
 AGT GGAC AGATGCAG
 ||||| |||||
 TCA CCTG TTTACGTC
 A AT_

GAM68 LOC154877 3' TCTGCATCCATTCCACT 3373 CAT A
 AGTGGA AT GATGCAGA
 ||||| |||||
 TCACCT TA CTACGTCT
 _ C

GAM68 LOC158327 3' TTCTGCAGGGACACCACTTAT 3216 ACATATAGA
 ATAAGTGG TGCAGAA
 ||||| |||||
 TATTCACC ACGTCTT
 ACAGGG_

GAM68 LOC196540 3' TCTGCATCCATGTACTCC 3467 C_ A
 GGA ATAT GATGCAGA
 ||||| |||||
 CCT TGTA CTACGTCT
 CA C

GAM68 LOC220394 5' TCTCAGAATATGTCCAT 3581 AGA C
 GTGGACATAT TG AGA
 ||||| |||||
 TACCTGTATA AC TCT
 AG_

GAM68 LOC254428 3' CTGTTGACCCATGTCCACCTAT 3677 A ATAGAT
 ATA GTGGACAT GCAG
 ||||| |||||
 TAT CACCTGTA TGTC
 C CCCAGT

GAM68 LOC92405 3' TTCTGTTACACATGTCTACTTA 2848 ATAGAT
 TAAGTGGACAT GCAGAA
 ||||| |||||
 ATTCACTCTGTA TGTCTT
 CACAT_

GAM69 DKFZP434G1411 3' TAGGTTGATACATGTATCA 3554 AA
 TGATACATGTATTAA TA
 ||||| |||||
 ACTATGTACATAGTT AT
 GG

GAM69 DKFZP564I052 3' GAAAGTATTCCTATCATGTAT 2760 T TAA
 ATACATG AT AATACTTC
 ||||| |||||
 TATGTAC TA TTATGAAAG
 _ TCC

GAM69 KLHL8 3' AAAGTATTTGTTACATAATCA 2639 AC TTA
 TGAT ATGTA AAATACTTT
 ||||| |||||

			ACTA TACAT	TTTATGAAA		
			A_	TG_		
GAM69	XLKD1	3'	AAAGTGCCATTAACAAATGTAT	1323	GTA	AA_
		CA	TGATACAT	TTAA	TACTTT	
			ACTATGTA	AATT	GTGAAA	
			AAC	ACC		
GAM69	LOC51003	3'	GAGGCACCTAACATACATGTAT	1658	AATA	
			ATACATGTATTAA	CTT		
			TATGTACATAATT	GAG		
			CACG			
GAM70	NEU3	3'	ATGATTTGTTCCATTNTTA	1319	TA	
			TAAAAAT	AACAAATCGT		
			ATTTTTA	TTGTTTAGTA		
			CC			
GAM70	CHPT1	3'	AACATTTGTTAACATTNTTA	1906	C	
			TAAAAATTAAACAAAT	GTT		
			ATTTTTAACATTGTTTA	CAA		
GAM70	LOC143310	3'	AATTTGTGATTTGTTAACATT	3057	TT_	
			AAATTAAACAAATCG	ATT		
			TTTAATTGTTTAGT	TAA		
			GTT			
GAM70	LOC152578	5'	TAATAACAAATGTTAACATTNTT	3361	AATC	
		A	TAAAAATTAAACA	GTTATTAA		
			ATTTTTAACATTGT	CAATAAT		
			AAA_			
GAM71	HNF3A	3'	ACAGCATAATAAAATCC	2543	C	GTT
			GGATT TGT	TATGCTGT		
			CCTAA ATA	ATACGACA		
		A	_____			
GAM71	MUC12	3'	AGCTGCAAACACAGAGCCC	3643	AT	TA T
			TGG TCTGTGTT	TGC GTT		
			ACC AGACACAA	ACG CGA		
			CG	__ T		
GAM71	OGN	3'	ACAGCATTACAAAATCC	2307	C	TTT
			GGATT TGTG	ATGCTGT		
			CCTAA ACAT	TACGACA		
		A	_____			
GAM71	OGN	3'	ACAGCATTACAAAATCC	1467	C	TTT
			GGATT TGTG	ATGCTGT		

		CCTAA ACAT	TACGACA			
		A	—			
GAM71	OGN	3' ACAGCATTACAAAAATCC	2059	C	TTT	
		GGATT TGTG	ATGCTGT			
		CCTAA ACAT	TACGACA			
		A	—			
GAM71	PTPRA	3' AGATAAACACAAAAATCCAT	962	C	G	
		ATGGATT TGTGTTTAT CT				
		TACCTAA ACACAAATA GA				
		A	—			
GAM71	PTPRA	3' AGATAAACACAAAAATCCAT	2389	C	G	
		ATGGATT TGTGTTTAT CT				
		TACCTAA ACACAAATA GA				
		A	—			
GAM71	PTPRA	3' AGATAAACACAAAAATCCAT	2390	C	G	
		ATGGATT TGTGTTTAT CT				
		TACCTAA ACACAAATA GA				
		A	—			
GAM71	TIRAP	3' AGCTAGAAACAGAAAACCCAT	2344	A	_	G T
		ATGG TTCTGT TTTA GCT				
		TACC AAGACA AGAT CGA				
		CAA A	—			
GAM71	ATF3	3' AGCGTTAACACAAAAATCCAT	1080	C	T	
		ATGGATT TGTGTT ATGCT				
		TACCTAA ACACAA TGCGA				
		A T				
GAM71	FLJ22457	3' AACATCTTCAACACAGAACACA	2106	GA	TATGC	
		TG TTCTGTGTT	TGTT			
		AC AAGACACAA	ACAA			
		AC CTTCT				
GAM71	LIPG	3' AGCCTAACACAAAAATTCA	1266	C	T	
		ATGGATT TGTGTTA GCT				
		TACTTAA ACACAAAT CGA				
		A C				
GAM71	MGC4643	3' AACAGCATTAACACAGCTGGACC	2271	A	T _	
		GG TTC G TGTTTATGCTGTT				
		CC AGG C ACAAAATACGACAA				
		— T G				
GAM71	LOC143888	3' AGTCTAACACAAAAATTCA	3064	C	T	
		ATGGATT TGTGTTA GCT				

		TACTTAA ACACAAAT TGA			
		A C			
GAM71	LOC149619 5'	AACATCTTCAACACAGAACACA	3311	GA	TATGC
		TG TTCTGTGTT	TGTT		
		AC AAGACACAA	ACAA		
		AC CTTCT			
GAM71	LOC91464 5'	AACAGCATAAAGGACCCCA	2740	AT GTG	
		TGG TCT TTTATGCTGTT			
		ACC AGG AAATACGACAA			
		CC _			
GAM72	CLDN1 3'	ATATTAATTAGTTTATATTA	1940		_
		TAATATAAACTAAT AATAT			
		ATTATATTTGATTA TTATA			
		A			
GAM72	KIAA1706 3'	ACAGTGTTCATAGTTTATATTA	3577	ATAAT	
		TAATATAAACTA ATATTGT			
		ATTATATTTGAT TGTGACA			
		ACT_			
GAM73	B3GALT5 3'	GTGCTGAAATCCACGCCAGA	2317	A	A_ T
		TCT GCGTGGAT CAG CAC			
		AGA CGCACCTA GTC GTG			
		C AA _			
GAM73	B3GALT5 3'	GTGCTGAAATCCACGCCAGA	1268	A	A_ T
		TCT GCGTGGAT CAG CAC			
		AGA CGCACCTA GTC GTG			
		C AA _			
GAM73	B3GALT5 3'	GTGCTGAAATCCACGCCAGA	2318	A	A_ T
		TCT GCGTGGAT CAG CAC			
		AGA CGCACCTA GTC GTG			
		C AA _			
GAM73	B3GALT5 3'	GTGCTGAAATCCACGCCAGA	2319	A	A_ T
		TCT GCGTGGAT CAG CAC			
		AGA CGCACCTA GTC GTG			
		C AA _			
GAM73	B3GALT5 3'	GTGCTGAAATCCACGCCAGA	2321	A	A_ T
		TCT GCGTGGAT CAG CAC			
		AGA CGCACCTA GTC GTG			
		C AA _			
GAM73	MEF2A 3'	GTGACTGTAGTTACTTAAGA	1229	C C A	
		TCT TAG GTGG TACAGTCAC			

AGA ATT CATT ATGTCAGTG
 - _ G
 GAM73 ORC2L 3' GTGAGAAGCCAGGCTAGAGA 1278 G ATACAG
 TCTCTAGC TGG TCAC
 ||||| ||| |||||
 AGAGATCG ACC AGTG
 G GAAG_

GAM73 PART1 3' CGGTGACTATATGAGAAATGGA 1699 GCGTGG C
 TCTA ATA AGTCACCG
 ||||| ||| |||||
 AGGT TAT TCAGTGGC
 AAGAG_ A

GAM73 SLC10A1 3' GTGACTGTAAACTCTATG 989 _____
 CGTGGAA TACAGTCAC
 ||||| ||| |||||
 GTATCT ATGTCAGTG
 CAA

GAM73 FUSIP1 3' GTGACTGTAAATATACTAGAG 1314 CG GA
 CTCTAG TG TACAGTCAC
 ||||| ||| |||||
 GAGATC AT ATGTCAGTG
 AT A_

GAM73 RAI17 3' GTGACTGTGGAGCCTGAGA 3515 T C GGA
 TCTC AG GT TACAGTCAC
 ||||| ||| |||||
 AGAG TC CG GTGTCAGTG
 - _ AG_

GAM73 LOC115811 5' GGTAACTGTGGCTAGGG 2442 GTGGA C
 TCTCTAGC TACAGT ACC
 ||||| ||| |||||
 AGGGATCG GTGTCA TGG
 _____ A

GAM73 LOC256946 3' GTGACTGTAAATATACTAGAG 3657 CG GA
 CTCTAG TG TACAGTCAC
 ||||| ||| |||||
 GAGATC AT ATGTCAGTG
 AT A_

GAM74 PEX3 3' AATATAGATTTTATATAC 1044 _____
 GTATGTA TATCTATATT
 ||||| |||||
 CATATAT ATAGATATAA
 TTT

GAM74 PKD2L2 3' TTAATATGAGACATACTG 1497 ATATC
 CAGTATGT TATATTAA
 ||||| ||| |||||
 GTCATACA GTATAATT
 GA_

GAM74 BA108L7.2 3' ATGCATATACATACATGATA 2179 - C
 TATCA GTATGTATAT TAT
 ||||| ||||| |||

ATAGT CATA CATATA GTA
 A C
 GAM74 IDI1 3' TTAATGTATTATACACTGAT 2776 A TC
 A TATCAGT TGTATA TATATTAA
 ||||| ||||| |||||
 ATAGTCA ATATAT ATGTAATT
 C T_

GAM74 PRO0899 5' AGTGTTTACACATACTGAT 1846 A TCT
 ATCAGTATGT TA ATATT
 ||||| ||| |||||
 TAGTCATACA AT TGTGA
 C TT_

GAM74 SEC14L1 3' TGGTAATACAATACTGATA 980 _ AT
 TATCAGTAT GTAT CTA
 ||||| ||||| |||||
 ATAGTCATA CATA GGT
 A AT

GAM74 LOC130074 3' TTAACATAGAACATGTTACTGAT 3045 TG A A
 A TATCAGTA TAT TCTAT TTAA
 ||||| ||| ||||| |||||
 ATAGTCAT GTA AGATA AATT
 TT _ C

GAM74 LOC222159 5' AGACCATGCATACTGATA 3633 A_
 TATCAGTATGTAT TCT
 ||||||||| |||||
 ATAGTCATACGTA AGA
 CC

GAM75 RNF28 3' AAGGAACCTTTGTATAATA 2263 A
 TATTATACAAAAA TTTTTT
 ||||||||| |||||
 ATAATATGTTT AAGGAA
 C

GAM75 SWAP70 3' GAAATAAAAATTATTTGTATAAA 2916 AAT
 T ATTATACAAA TTTTATTTC
 ||||| |||||||
 TAATATGTTT AAAAATAAAG
 ATT

GAM75 bA430M15.1 3' AAAAATTTGTATAATG 3072
 TATTATACAAAAATTTT
 |||||||||
 GTAATATGTTTAAAAA

GAM76 PSG1 3' TTTGATT CGGAT GTTATA 1337 GT
 TATAACATC AATCAA
 ||||| |||||
 ATATTGTAG TTAGTT
 GC

GAM76 RALB 3' TTTGAACTACAGAT GTTGTA 968 _ A_
 TATAACATC GTA TCAAAA
 ||||| ||| |||||

ATGTTGTAG CAT AGTTTT
 A CA
 GAM76 CEACAM8 3' TTTGATTGGGATGTTATA 859 G
 TATAACATC TAATCAAA
 ||||||| |||||
 ATATTGTAG GTTAGTTT
 G
 GAM76 LAT1-3TM 3' TTTTGGTGGCTCGATGTTA 2183 TA__
 TAACATCG ATCAAAA
 ||||||| |||||
 ATTGTAGC TGGTTTT
 TCGG
 GAM76 LAT1-3TM 5' TTTTGGTGGCTCGATGTTA 2827 TA__
 TAACATCG ATCAAAA
 ||||||| |||||
 ATTGTAGC TGGTTTT
 TCGG
 GAM76 MCFP 5' TTTTGGCTACTGATGTTA 1863 _ AT
 TAACATC GTA CAAAA
 ||||||| |||||
 ATTGTAG CAT GTTTT
 T CG
 GAM76 MGC26651 3' TTTTGATGTGAAAGATGTTATA 2489 GTA__
 TATAACATC ATCAAAA
 ||||||| |||||
 ATATTGTAG TAGTTTT
 AAAGTG
 GAM76 LOC197423 5' TTTTGGTGGCTCGATGTTA 3090 TA__
 TAACATCG ATCAAAA
 ||||||| |||||
 ATTGTAGC TGGTTTT
 TCGG
 GAM76 LOC220565 5' TTTTGGTGGCTCGATGTTA 3495 TA__
 TAACATCG ATCAAAA
 ||||||| |||||
 ATTGTAGC TGGTTTT
 TCGG
 GAM77 FLJ13215 3' GAATATTCTACCTAAATAT 2126 G A
 ATA TTAG TAGAATATTTC
 ||||| |||||
 TAT AATC ATCTTATAAG
 A C
 GAM77 PTP4A1 3' CTAATGAATTGAGCACATCTAA 1027 AGAAT__
 T GTTAGAT ATTCAATTAG
 ||||||| |||||
 TAATCTA TAAGTAATC
 CACGAGT
 GAM77 SDFR1 3' TGGTAATATTCTATGCAACTAT 1430 AG C
 ATAGTT ATAGAATATT ATTA
 ||||| ||||| |||

TATCAA TATCTTATAA TGGT
 CG _
 GAM77 SDFR1 3' TGGTAATATTCTATGCAACTAT 1718 AG C
 ATAGTT ATAGAATATT ATTA
 ||||| ||||| |||||
 TATCAA TATCTTATAA TGGT
 CG _
 GAM77 LOC221133 3' CTAATGAAGAGAAATATTAAC 3608 GAATA
 GTTAGATA TTCATTAG
 ||||| |||||
 CAATTTAT AAGTAATC
 AAGAG
 GAM78 DJ667H12.2 3' TTATGCCATGAACATGCCA 1884 CGATAA
 TGGTATGTTCA GTATAA
 ||||| |||||
 ACCGTACAAGT CGTATT
 AC __
 GAM78 KIAA1799 3' TTATACTTAGAACATTACCA 3003 T ACGA
 TGGTA GTTC TAAGTATAA
 ||||| |||||
 ACCAT CAAG ATTCAATT
 T __
 GAM78 PPP1R3B 3' TTTATGTAACATACCA 2071 C G
 TGGTATGTT AC ATAAG
 ||||| |||||
 ACCATACAA TG TATTT
 A __
 GAM78 LOC144840 3' ATTTCTCGTGAACACCCA 3071 TA T
 TGG TGTTCACGA AAGT
 ||| ||||| |||||
 ACC ACAAGTGCT TTTA
 C_ C
 GAM78 LOC158674 3' ATTTCCCGTGAACACCCA 3222 TA AT
 TGG TGTTCACG AAGT
 ||| ||||| |||||
 ACC ACAAGTGC TTTA
 C_ CC
 GAM78 LOC245757 3' ATTTCCCGTGAACACCCA 3496 TA AT
 TGG TGTTCACG AAGT
 ||| ||||| |||||
 ACC ACAAGTGC TTTA
 C_ CC
 GAM78 LOC81034 3' ATTTATCGTAAACATCCA 2164 T C
 TGG ATGTT ACGATAAGT
 ||| ||||| |||||
 ACC TACAA TGCTATTAA
 _ A
 GAM79 DTNB 3' CTAATATCCAGAACATCCA 2316 TA A G
 A TCTTT AGA TT TGGATATTAG
 ||||| ||| ||||| |||||

AGAAA TCT AA ACCTATAATC
CA _ G
GAM79 SP100 3' AGTAAATACAATTAAAAA 993 GA
TTTAAGAATTGTG TATT
||||||| |||||
AAAATTTAACAT ATGA
AA

GAM79 KIAA1229 3' AATATCCAGAATCTACAAAGA 2620 TA A G
TCTTT AGA TT TGGATATT
||||| ||| |||||
AGAAA TCT AA ACCTATAA
CA _ G

GAM79 LOC144776 3' AATATTCAATATTCTTAAAGA 3070 T TG
TCTTT AAGAAT TGGATATT
||||| ||||| |||||
AGAAA TTCTTA ACTTATAA
_ TA

GAM79 LOC199775 5' CTAATTCTTCATTCTTAA 3432 T T
TTAAGAATTG GGA ATTAG
||||||| ||| |||||
AATTCTAAC TCT TAATC
T _

GAM79 LOC222236 3' GTCTACAATTCCAAAAGA 3651 AA
TCTTTT GAATTGTGGAT
||||| ||||| |||||
AGAAAA CTTAACATCTG
CC

GAM80 CHRNA1 3' TTATTATTGATGATAAGA 701 C _
TCT ATCATCAG AATAA
||| ||||| |||||
AGA TAGTAGTT TTATT
A A

GAM80 TNFSF9 3' ATTTATTCTGAGCCTGAG 1062 TCA
CTCA TCAGAATAAT
||| ||||| |||||
GAGT AGTCTTATTAA
CCG

GAM80 AKT3 3' ATTTATTTTTAGTGATGAGAA 1214 C __
TTCTCATCAT AGAATAAT
||||| |||||
AAGAGTAGTG TTTTATTAA
ATT

GAM80 FLJ10103 3' TTGTTTACTGATGAGAA 1773 TCA
TTCTCATCA GAATAA
||||||| |||||
AAGAGTAGT TTTGTT
CA_

GAM80 FLJ22582 3' TTTGTAAATGATGAGAA 2132 __
TTCTCATCAT CAGAA
||||||| |||||

		AAGAGTAGTA	GTTTT		
		AAT			
GAM80	KIAA1371	3'	ATTCTAGAAATGGTGAGAA	3454	— —
		TTCTCATCA	TC AGAAT		
		AAGAGTGGT	AG TCTTA		
		AA A			
GAM80	MACF1	3'	ATTTATTCTGAACGGGAGAA	2308	ATCA
		TTCTC	TCAGAATAAAT		
		AAGAG	AGTCTTATTAA		
		GGCA			
GAM80	MACF1	3'	ATTTATTCTGAACGGGAGAA	1403	ATCA
		TTCTC	TCAGAATAAAT		
		AAGAG	AGTCTTATTAA		
		GGCA			
GAM80	MGC16824	3'	TTATTCTGACAATGAAGA	1910	_ CA
		TCT CAT	TCAGAATAA		
		AGA GTA	AGTCTTATT		
		A AC			
GAM80	NR2C1	3'	ATTTATTCTTGGTGAAGA	1006	A _
		TC TCATCA	GAATAAAT		
		AG AGTGGT	CTTATTAA		
		A T			
GAM80	P450RAI-2	3'	ATTTATTCACTGATAGAGAA	1887	_ TCA
		TTCTC ATCA	GAATAAAT		
		AAGAG TAGT	CTTATTAA		
		A CA_			
GAM80	LOC152715	5'	ATTTGGCTGATGATGGAA	3174	T AA
		TTC CATCATCAG	TAAAT		
		AAG GTAGTAGTC	GTTTA		
		G_			
GAM80	LOC222166	3'	ATTCTGTGGGCTGATGAGAA	3634	T _____
		TTCTCATCA	CAGAAT		
		AAGAGTAGT	GTCTTA		
		CGGGT			
GAM80	LOC257042	3'	ATTCTGAGTGATGATGAA	3719	_ _
		TTC TCATCA	TCAGAAT		
		AAG AGTAGT	AGTCTTA		
		T G			
GAM81	CORO2B	5'	TTCTGTTGCCAAGCTGG	2694	_ GAG TAAA
		CC GCT	TGG CAACAGAA		

GG CGA ACC GTTGTCTT
 T ____ C_____

GAM81 EFNB2 3' GTTCTGTTACCCAGGGCTCTGC 1084 T ____ AACAA
 GC GAGT GGTAA ACAGAAC
 ||||| |||||
 CG CTCG CCAT TGTCTTG
 T GGAC _____

GAM81 GCGR 5' TCTGCTGCTCTGCCACTCAGC 714 AA_ A
 GCTGAGTGGTA CA CAGA
 ||||||| |||||
 CGACTCACCGT GT GTCT
 CTC C

GAM81 HMOX1 3' GTTCTGTTGTTTATAGCAGG 901 G AGTGGT
 G CC CTG AAACAACAGAAC
 ||||| |||||||
 GG GAC TTTGTTGTCTTG
 _ GATATT

GAM81 HS3ST2 3' GTTCTGTTGCTATGAACACAGC 1267 A GGTAAA
 GCTG GT CAACAGAAC
 ||||| |||||
 CGAC CA GTTGTCTTG
 A AGTATC

GAM81 PIM2 3' CTGTTGTTACCCCAAGG 2550 GC AGT A
 CC TG GGTAA CAACAG
 ||| ||| |||||
 GG AC CCATT GTTGTC
 A_ C_ _

GAM81 PIP5K1B 5' TCTGTTGCTACTAACGC 1034 G TAAA
 GCT AGTGG CAACAGA
 ||||| |||||
 CGA TCATC GTTGTCT
 A _____

GAM81 RBM3 3' TTCTGTTGTCTCATACAG 2887 A TAA
 CTG GTGG ACAACAGAA
 ||||| |||||
 GAC TACT TGTTGTCTT
 A CTG

GAM81 SMAC 3' CTGTCTCCCCACTCAGTGG 1889 TAAACA
 CCGCTGAGTGG ACAG
 ||||||| |||||
 GGTGACTCACC TGTC
 CCTC_

GAM81 SMAC 3' CTGTCTCCCCACTCAGTGG 2459 TAAACA
 CCGCTGAGTGG ACAG
 ||||||| |||||
 GGTGACTCACC TGTC
 CCTC_

GAM81 SMAC 3' CTGTCTCCCCACTCAGTGG 2460 TAAACA
 CCGCTGAGTGG ACAG
 ||||||| |||||

GGTGACTCACC TGTC
 CCTC_

GAM81 SOST 3' TTCTGCCAACCACTCACGG 2148 C AAACAA
 CCG TGAGTGGT CAGAA
 ||||| |||||
 GGC ACTCACCA GTCTT
 CCC_

GAM81 ZNF10 5' TCTGCTGTCACTCAAGG 1626 GC GTAA A
 CC TGAGTG ACA CAGA
 ||||| |||||
 GG ACTCAC TGT GTCT
 A_ _ C

GAM81 ABCA10 5' TTCTGTTAGTTACTCA 2373 GTAA _
 TGAGTG AC AACAGAA
 ||||| |||||
 ACTCAT TG TTGTCTT
 A_

GAM81 H2AFJ 3' GTTCTGCTATTTACTCTGTGG 1807 T TAAACAA
 CCGC GAGTGG CAGAAC
 ||||| |||||
 GGTG CTCATT GTCTTG
 T TATC_

GAM81 HSH2 3' GTTCTGTTGTCTAAAAGC 2289 GAG TAA
 GCT TGG ACAACAGAAC
 ||||| |||||
 CGA ATC TGTTGTCTT
 AA_

GAM81 KIAA1024 3' TTCTGTTGTCACCATTAAAGGG 2841 G G A
 G CC CT AGTGGT AACAAACAGAA
 ||||| |||||
 GG GA TTACCA TTGTTGTCTT
 G A C

GAM81 KIAA1399 3' GTTCTGCTATTTCCAATCAGTC 2881 C G T CAA
 A C GCTGA TGG AAA CAGAAC
 ||||| |||||
 A TGACT ACC TTT GTCTTG
 C A _ ATC

GAM81 MIC2L1 3' TCTGTTGTCAGAGGCTCACGG 2205 C GGTAA
 CCG TGAGT ACAACAGA
 ||||| |||||
 GGC ACTCG TGTTGTCT
 - GAGAC

GAM81 RASGRF2 3' TTCTGTTAGAACTCAGGG 2590 G GGTAAAC
 CC CTGAGT AACAGAA
 ||||| |||||
 GG GACTCA TTGTCTT
 - AGA_

GAM81 TJP2 3' CTGTTACTTGCTTCAGTGG 2534 GT AC
 CCGCTGA GGTAA AACAG
 ||||| ||||| |||||

GGTGACT TCGTT TTGTC
 _____ CA
 GAM81 LOC202020 3' TTCTGTTGCCCTAACGGCAGC 3459 AG_ TAAA
 GCTG TGG CAACAGAA
 ||||| |||||
 CGAC ATC GTTGTCTT
 GGA C_____

GAM81 LOC220766 5' TCTGGATTTACCACACTCAGAGG 3499 G AAACAA
 CC CTGAGTGGT CAGA
 ||||||| |||||
 GG GACTCACCA GTCT
 A CTTTAG

GAM81 LOC256277 3' CTGTTGTTCAGCAGTG 3664 AG TAA
 CGCTG TGG ACAACAG
 ||||| |||||
 GTGAC ACT TGTTGTC
 G_ __

GAM81 LOC256337 3' CTGTTGTTCAGCAGTG 3663 AG TAA
 CGCTG TGG ACAACAG
 ||||| |||||
 GTGAC ACT TGTTGTC
 G_ __

GAM82 PTCRA 3' ATGACTGAGAACATTAAA 2433 ATC
 TTTAAT CTCAGTCAT
 ||||| |||||
 AAATTA GAGTCAGTA
 CAA

GAM82 PUNC 3' ATGACTTGGAACTGAACTAAC 3469 ATA TC
 GTTAGTTA TCC AGTCAT
 ||||||| |||||
 CAATCAAGT AGG TCAGTA
 CA_ T_

GAM82 KIAA0940 3' ACTGATATATTATAAACTAAC 1586 — CC
 GTTAGTTA ATAT TCAGT
 ||||| |||||
 CAATCAAAT TATA AGTCA
 AT T_

GAM82 RGS18 3' ATGACTGAGAACATAAGATCCAC 2398 TA AA C
 GT GTTT TAT CTCAGTCAT
 ||||| |||||
 CA TAGA ATA GAGTCAGTA
 CC _ A

GAM83 ATP12A 3' CCCTGCAGTGCAGACATCGTCA 846 A A C TT
 A
 TTGATGAT TCT CAT GT GG
 ||||||| ||||| |||||
 AACTGCTA AGA GTG CG CC
 C C A TC

GAM83 CRYGS 3' CCAAATAGGCATCATCAA 1722 AT ACATC
 TTGATGAT CT GTTTGG
 ||||| |||||

		AACTACTA GA TAAACC CG _____	
GAM83	LPIN2	3' TCCAAAGTTAACATC 1514	ATC TCG_____
		ATCAG TTGATGAT TACA TTTGGA	
		GACTACTA ATGT AAACCT	
		CAA TAATTG	
GAM83	KIAA1786	3' TCCATGCTGTAGATACCA 2738	A TC T
		TG TATCTACA GT TGGA	
		AC ATAGATGT CG ACCT	
		C _ T	
GAM83	LOC222008	3' CCAAGTTAGATGTCAAA 3629	CATCG
		TTGATGATATCTA TTTGG	
		AACTACTGTAGAT GAACC	
		T _____	
GAM83	LOC90639	5' TCTGAACACAGATATCATCAG 2663	ACATC TG
		TTGATGATATCT GTT GA	
		GACTACTATAGA CAA CT	
		CA__ GT	
GAM84	AP1B1	3' GTCAGGATTGAAAGCTG 803	C ATA
		TAGCTTCATC TGAC	
		GTCGAAAGT AG ACTG	
		T G__	
GAM84	IQGAP1	3' GTCATTTAGAAGTGGAAAGCTA 2840	_ AT_
		TAGCTTCACTC ATGAC	
		ATCGAAGGTGA G TACTG	
		A ATT	
GAM84	PDE6A	3' GTCATAGGATTGAAAGCTG 744	C_ A
		TAGCTTCATC TATGAC	
		GTCGAAAGT AG ATACTG	
		TT G	
GAM84	PTEN	3' CATATAAATGTGGAGGCTA 728	TC__
		TAGCTTCAC ATATG	
		ATCGGAGGTG TATAC	
		TAAA	
GAM84	SH3GL2	3' TCATGTGGAGTGAAAGGC 985	- -
		GC TTTCACTC ATATGA	
		CG AAAGTGAG TGTACT	
		G G	
GAM84	C1orf16	3' CATGGGAAGTGAAAGCTG 1567	_ A
		TAGCTTCACTC TATG	

GTCGAAAGTGA G GTAC
 A G
 GAM84 DKFZp547A023 3' GTCATATAAATGAGTGAAA 2956 —
 TTTCACTCA TATGAC
 ||||||| |||||
 AAAGTGAGT ATACTG
 AAAT

GAM84 FLJ11850 5' GTCATATGTGGCAGCT 2001 T TC
 AGCT TCAC ATATGAC
 ||||| |||||
 TCGA GGTG TATACTG
 C —

GAM84 FLJ12888 3' GTCATATTTTGAAAGTTA 2115 CTC
 TAGCTTCAT ATATGAC
 ||||||| |||||
 ATTGAAAGT TATACTG
 TTT

GAM84 FLJ21596 3' GTCATTGCATGGTGAAAGC 2092 T —
 GCTTCAC CAT ATGAC
 ||||||| |||||
 CGAAAGTG GTA TACTG
 — CGT

GAM84 KIAA1878 3' GTCACAGATTTGAAAGCTA 3539 C__ ATA
 TAGCTTCAT TC TGAC
 ||||||| |||
 ATCGAAAGT AG ACTG
 TTT AC_

GAM84 NXPH3 3' GTCATGGGAGGAAGCTA 2728 A TA
 TAGCTTCCTCA TGAC
 ||||||| |||||
 ATCGAAGG GGGT ACTG
 A —

GAM84 SS18L1 3' GTCATATGAATGTTGAGC 2719 T_ C
 GCTT CA TCATATGAC
 ||| | |||||||
 CGAG GT AGTATACTG
 TT A

GAM84 SYT13 3' CAGATGCAGAGAAAGCTA 3605 A _ A
 TAGCTTCCTCAT TG
 ||||||| |||
 ATCGAAAG GA GTA AC
 A C G

GAM84 LOC134301 3' GTCATATGTTAAAGAGCTA 3016 CACT
 TAGCTTT CATATGAC
 ||||| |||||
 ATCGAGA GTATACTG
 AATT

GAM84 LOC151438 3' GTCATTTCTGATGAAAGCTG 3346 C T__
 TAGCTTCATCA ATGAC
 ||||||| ||| |||||

GTCGAAAGT AGT TACTG
 _ CTT
 GAM84 LOC158696 3' TCATATGAAGAAAGCTA 3223 AC
 TAGCTTTC TCATATGA
 |||||| |||||
 ATCGAAAG AGTATACT
 A_

GAM84 LOC221975 3' GTCATATGACAGGGCTG 3570 CAC
 TAGCTTT TCATATGAC
 |||||| |||||||
 GTCGGGA AGTATACTG
 C_

GAM84 LOC84549 3' GTCAAGTGGAAAGCTA 2256 ACT A
 TAGCTTTC CAT TGAC
 |||||| |||||
 ATCGAAAG GTG ACTG
 __ A

GAM84 LOC90459 3' TCATATAGGGTGAAAAGC 2644 - -
 GCTTT CACTC ATATGA
 |||||| |||||
 CGAAA GTGGG TATACT
 A A

GAM84 LOC90529 3' GTCTACTGGCGAAAGCTA 2652 A TAT
 TAGCTTTC CTCA GAC
 |||||| |||||
 ATCGAAAG GGGT CTG
 C CAT

GAM85 F2RL3 3' TGGTGAAATCCTATCTCT 1074 AG ATGTAA
 AGA TAGGATT CATCA
 ||| ||||| |||||
 TCT ATCCTAA GTGGT
 CT A_

GAM85 RAP1B 3' ATGTTACAAC TACTTT 1642 GATTA
 GAAAGTAG TGTAACAT
 |||||| |||||
 TTTCATC ACATTGTA
 A_

GAM85 SLC6A12 3' TTGCCATCCTGCTTCT 988 TAT
 AGAAGTAGGAT GTAA
 |||||| |||||
 TCTTCGTCCTA CGTT
 C_

GAM85 ALDH5A1 3' TGCAAATCCTACCCCTG 799 AA A
 CAG GTAGGATT TGTA
 ||| ||||| |||||
 GTC CATCCTAA ACGT
 CC -

GAM85 C20orf112 3' TGATGTTAGAATCCCAC 2379 A ATG
 GT GGATT TAACATCA
 || |||| ||||| |

CA CCTAA ATTGTAGT
 C G_

GAM85 DICER1 3' GATGCCACATAGTCTTGC 2152 AA
 GTAGGATTATGT CATC
 ||||| |||||
 CGTTCTGATACA GTAG
 CC

GAM85 DKFZP566G1424 5' TGATGTTAGAACATCCCAC 3320 A ATG
 GT GGATT TAACATCA
 || ||||| |||||
 CA CCTAA ATTGTAGT
 C G_

GAM85 FLJ10858 3' ATGTTGGTCCTCCTCTG 1805 A T TGT
 CAGA G AGGATTA AACAT
 ||||| ||||| |||||
 GTCT C TCCTGGT TTGTA
 _C __

GAM85 FLJ13265 3' TGATGTTACTTGCCACCTACTT 2100 ATTAT_
 C GAAGTAGG GTAACATCA
 ||||| |||||
 CTTCATCC CATTGTAGT
 ACCGTT

GAM85 FLJ22282 3' TGATGTGGAAACCTACTTCTG 2089 A ATGTA
 CAGAAGTAGG TT ACATCA
 ||||| || |||||
 GTCTTCATCC AA TGTAGT
 A GG__

GAM85 GBTS1 3' GATGTTGCCTCCTCCTCTG 2516 A T TTAT
 CAG AG AGGA GTAACATC
 ||| || |||||
 GTC TC TCCT CGTTGTAG
 C _ C__

GAM85 KIAA0193 3' TGATGTCCTAGTCCTACCACT 1545 AA TGTAA
 AG GTAGGATTA ACATCA
 || ||||| |||||
 TC CATCCTGAT TGTAGT
 AC CC__

GAM85 KIAA1030 3' TGATGCCCTGTCCTCACCTCTG 3597 A _ TATGTAA
 CAGA GT AGGAT CATCA
 ||||| ||||| |||||
 GTCT CA TCCTG GTAGT
 C C TCCC__

GAM85 OR7C1 3' ATGTTTCATGCATCCATACTTC 1719 _ _ T
 TG CAGAAGTA GGAT TATG AACAT
 ||||| ||||| |||||
 GTCTTCAT CCTA GTAC TTGTA
 A C T

GAM85 PRO2214 3' TATGTAAATCCTACTTTG 1834 _
 CAGAAGTAGGATT ATGTA
 ||||| |||||

GTTTTCATCCTAA TGTAT
 A
 GAM85 SMCR5 3' ACATGGGGAGATCCTACCTCT 2502 A _____
 AGA GTAGGATT ATGT
 ||||||| |||||
 TCT CATCCTAG TACA
 C AGGGG
 GAM85 SSH1 3' ACATTAAGTCCTACCTCTG 1869 A —
 CAGA GTAGGATT ATGT
 ||||||| |||||
 GTCT CATCCTGA TACA
 C AT
 GAM85 TERA 3' TGGATCATCTACTTCTG 1948 — T G
 CAGAAGTAG GAT AT TA
 ||||||| || |||
 GTCTTCATC CTA TA GT
 T C G
 GAM85 WBSCR23 5' ATATAGTGAGACCCTATTTCT 2131 _____
 AGAAAGTAGG ATTATGT
 ||||||| |||||
 TCTTTATCC TGATATA
 CAGAG
 GAM85 LOC134637 3' ATGTTACATGCACCTTC 3017 AGT AT
 GA AGG TATGTAACAT
 || ||| |||||
 CT TCC GTACATTGTA
 — AC
 GAM85 LOC146745 5' GATGCCGAGGACATCTTACTCC 3098 A TATGTAA_
 TG CAG AGTAGGAT CATC
 ||||||| |||||
 GTC TCATTCTA GTAG
 C CAGGAGCC
 GAM85 LOC153416 3' ATGTTACAACACTTT 2573 GATTA
 GAAAGTAG TGTAACAT
 ||||||| |||||
 TTTCATC ACATTGTA
 A _____
 GAM85 LOC157867 5' TGATTCAACAACTTACTCCTG 3383 A TA AAC
 CAG AGTAGGAT TGT ATCA
 ||||||| |||||
 GTC TCATTCTA ACA TAGT
 C ACT
 GAM85 LOC201243 5' GATGCCGAGGACATCTTACTCC 3425 A TATGTAA_
 TG CAG AGTAGGAT CATC
 ||||||| |||||
 GTC TCATTCTA GTAG
 C CAGGAGCC
 GAM86 OSR1 3' CGTTAGTAAACTTACTTCATA 1188 AG_ CT
 TATGAAGTAA TAT ACG
 ||||||| |||||

			ATACTTCATT	ATG	TGC			
			CAA	AT				
GAM86	PACE4	5'	CGCAGGCCCTTACTTCA	2435		TA	A	
			TGAAGTAAAG	TCT	CG			
			ACTTCATTTC	GGA	GC			
			CC	C				
GAM86	KIAA1462	3'	CGTATGATTTATTCATA	3522		ATC		
			TATGAAGTAAAGT	TACG				
			ATACTTTATTTA	ATGC				
			GT_					
GAM86	LOC145945	3'	TCATAGATACAATACCTTA	3280		AA	C	
			TGAAGTA	GTATCTA	GA			
			ATTCAT	CATAGAT	CT			
			AA	A				
GAM86	LOC219401	5'	TCGTGGGCCGCACCTCATA	3580		AAAGTA		
			TATGAAGT	TCTACGA				
			ATACTTCA	GGGTGCT				
			CGCCC_					
GAM87	ABCA1	3'	TGGTGGCAGAACATGCAAC	1219	T	CA		
			GTT	GCATGTTAC	CTATCA			
			CAA	CGTACAATG	GGTGGT			
			AC					
GAM87	CD2AP	3'	ATAATGGTAATAGGAAAAC	1408	GCA	C		
			GTTT	TGTTACCA	TAT			
			CAAA	ATAATGGT	ATA			
			AGG	A				
GAM87	HHIP	5'	TGACACTGGCACAACTGCAAAC	1989	T	A_	CTA	
			GG	CCGTTTGCA	GTT	CCA	TCA	
			GGCAAACGT	CAA	GGT	AGT		
			_	CAC	CAC			
GAM87	AKAP7	3'	TGATAGTGTCTGCACAAAC	1159	_	TGTTAC		
			GTT	TGCA	CACTATCA			
			CAA	ACGT	GTGATAGT			
			C	CT_				
GAM87	AKAP7	3'	TGATAGTGTCTGCACAAAC	1683	_	TGTTAC		
			GTT	TGCA	CACTATCA			
			CAA	ACGT	GTGATAGT			
			C	CT_				
GAM87	AKAP7	3'	TGATAGTGTCTGCACAAAC	2446	_	TGTTAC		
			GTT	TGCA	CACTATCA			

CAA ACGT GTGATAGT
 C CT
 GAM87 ARHGAP5 3' TTGATAATGTTGTGCAAAGG 3077 G TTAC C
 CC TTTGCATG CA TATCAA
 || ||||| || |||||
 GG AAACGTGT GT ATAGTT
 _ T__ A

GAM87 C22orf19 3' TGACAGTGCAGTGCAAC 1048 GTTAC A
 GTTGCAT CACT TCA
 ||||| ||||| III
 CAAACGTG GTGA AGT
 AC__ C

GAM87 DKFZp566D234 3' GACAGTGGTAAGTAAA 2611 ATG A
 TTTGC TTACCACT TC
 ||||| ||||| II
 AAATG AATGGTGA AG
 _ C

GAM87 FLJ11160 3' TGACAGCGAGATGCAAGC 1815 G ACCA A
 GTTGCAT TT CT TCA
 ||||| || |||||
 CGAACGTA AG GA AGT
 G C__ C

GAM87 FLJ13089 5' TTGACAATGGTAATAATAAAAT 2899 GCA CTA
 GG CCGTT TGTTACCA TCAA
 ||||| ||||| III
 GGTAAA ATAATGGT AGTT
 ATA AAC

GAM87 FLJ14297 3' ATAGTTAACATGCAAC 2107 T ACC
 GTT GCATGTT ACTAT
 ||||| |||||
 CAA CGTACAA TGATA
 _ ATT

GAM87 HSPC065 3' TGACAGTGGTAGAATAAAAGG 1483 G CATG A
 CC TTTG TTACCACT TCA
 ||||| ||||| III
 GG AAAT GATGGTGA AGT
 _ AA__ C

GAM87 LOC150737 3' TGATAGTGGCATTTATCAAATG 3149 C TTA_
 G CCGTTG ATG CCACTATCA
 ||||| ||||| III
 GGTAAAC TAT GGTGATAGT
 _ TTAC

GAM87 LOC152185 3' ATAATGGTAATGCAAATCA 2498 C GT C
 C GTTGCAT TACCA TAT
 ||||| ||||| III
 A TAAACGTA ATGGT ATA
 C __ A

GAM88 DAAM2 3' ACCAACTGGGGAACTGTG 3560 _ C
 TACAGTTCCCTT GTT GT
 ||||| ||||| III II

GTGTCAAGGGG CAA CA
 T C
 GAM88 FN14 3' TGACTAAGGAAC TGCAGC 1703 A TTC
 GCT CAGTTCC TTG GTCG
 ||| ||||| |||
 CGA GTCAAGGAAT CAGT
 C —
 GAM88 TM4SF2 3' TGTTTTAAAAAGGAAC TGCAGC 1131 A GTTCGTC
 GCT CAGTTCC TT GACA
 ||| ||||| |||
 CGA GTCAAGGAA TTGT
 C AAATT—
 GAM88 WNT3 3' GTCAGACAGCAAGGAAC TGT 2159 C —
 ACAGTTCC TTGTT GTC GAC
 ||||||| ||| |||
 TGTCAGGAACGA CAG CTG
 — A
 GAM88 GLTP 3' GCCAACGAGGAACACAGC 1686 ACA C
 GCT GTTCCTTGT GT
 ||| ||||| |||
 CGA CAAGGAGCAA CG
 CA_ C
 GAM88 PRO0149 5' GTCCCAAAAAAACTGTAGT 1473 CC TTCGTC
 GCTACAGTT TTG GAC
 ||||||| ||| |||
 TGATGTCAA AAC CTG
 AA C—
 GAM89 LAMP2 3' AGTACTAAAATTAAATGCA 1455 T
 TGCATTAATTTT GTATT
 ||||||| |||||
 ACGTAATTAAAA CATGA
 T
 GAM89 DKFZp762K2015 3' AGAATCCATGCTAAAAATTAA 2949 — T
 TTAATTTT GTAT GATTCT
 ||||||| ||| |||||
 AATTAATTTAA CGTA CTAAGA
 T C
 GAM89 FLJ10921 5' AGAATCAATACTACAAC TGCA 1808 TTAATTTT
 TGCA GTATTGATTCT
 ||| ||||| |||
 ACGT CATAACTAAGA
 CAACAT—
 GAM89 LOC91752 3' AATCAATACAATATATGC 2778 TAATT
 GCAT TTGTATTGATT
 ||| ||||| |||
 CGTA AACATAACTAA
 TAT—
 GAM90 GLP1R 3' AGACACATGGCTATCCTAGAG 896 C A
 TTTG GATAGCCATGT TCT
 |||| ||||| |||

		GAGAT CTATCGGTACA AGA	
		C C	
GAM90	FLJ10891	3' TACAGCCATTGCAAACAA 1806	A CA
		TGTTTGCGAT GC TGTA	
		ACAAAACGTTA CG ACAT	
		C _	
GAM90	KIAA0781	3' CAAGGCCATCACAAAGCA 2793	C A A
		TGTTTG GAT GCC TG	
		ACGAAAC CTA CGG AC	
		A C A	
GAM90	KIAA1077	3' CATGGCCACCGCAGAACCA 2963	ATA
		TGTTTGCG GCCATG	
		ACAAGACGC CGGTAC	
		CAC	
GAM90	PEL12	3' ATACATGGGACTTCACAAACCA 1950	T C TAG_
		TGTTT G GA CCATGTAT	
		I	
		ACAAA C CT GGTACATA	
		_ A TCAG	
GAM91	GPRK6	3' GAGGAGCCACTGCCAAACT 898	CTA AGA
		AGTTTGGCAG GC TTC	
		TCAAACCGTC CG GAG	
		AC_ AG_	
GAM91	WWP1	5' GTTTCTAGTGCCAACTTA 3164	G C
		TAAGTTGGCA CTAG AGAT	
		ATTCAAACCGT GATC TTTG	
GAM91	LOC144559	5' TGAATCTGCCAGCACCATAACT 3067	_ CA A
		T	
		AAGTT TGG GCT GCAGATTCA	
		TTCAA ACC CGA CGTCTAAGT	
		T A_ C	
GAM91	LOC200163	3' TGCTAATGCCAAACTTA 3440	GC
		TAAGTTGGCA TAGCA	
		ATTCAAACCGT ATCGT	
		A_	
GAM91	LOC219918	5' TGAATCTGCCAGCACCAGAACT 3531	_ CA A
		T	
		AAGT TTGG GCT GCAGATTCA	
		TTCA GACC CGA CGTCTAAGT	
		A A_ C	
GAM91	LOC220071	5' TGAATCTGCCAGCAGCAGAACT 3603	G A A
		T	
		AAGTTT GC GCT GCAGATTCA	

TTCAAG CG CGA CGTCTAAGT
 A A C
 GAM91 LOC255515 3' TGAATCTGCCAACACCCAGAACT 3689 _ CAGCTA
 T AAGT TTGG GCAGATTCA
 ||||| |||||
 TTCA GACC CGTCTAAGT
 A ACAAC_

GAM92 BCL11B 3' ACAAAATATCATAAAAGGA 2020 CC G
 TCCT TA GATATTTGT
 ||||| |||||
 AGGA AT CTATAAACAA
 AA A

GAM92 M17S2 5' GATACCTACAACCTCCTAGGAAG 2213 C TAT A_
 A TC TCCTAGGA TTGTA TATC
 ||||| |||||
 AG AGGATCCT AACAT ATAG
 A C_ CC

GAM92 CRFG 3' ATATTACAAATATTTGAG 2775 CT
 CTC AGGATATTTGTAATAT
 |||||
 GAG TTTTATAAACATTATA

GAM92 FLJ23360 5' ATATTGCATCCCTAGAGA 2030 _ ATATT
 TC CTAGG TGTAATAT
 ||||| |||||
 AG GATCC ACGTTATA
 A CT_

GAM92 KIAA0349 3' ATATCACAGAGCCTGGGAG 3561 ATA A
 CTCCTAGG TTTGT ATAT
 ||||| |||||
 GAGGGTCC AGACA TATA
 G_ C

GAM92 PRO2325 5' GATATTAACAGTCATCCTAG 1836 AT _
 CTAGGAT TTGT AATATC
 ||||| |||||
 GATCCTA GACA TTATAG
 CT A

GAM92 SCYA16 3' ATATTTCTCAATCTTAGGAGG 1130 ATTTGT
 A TCCTCCTAGGAT AATAT
 ||||| |||||
 AGGAGGATTCTA TTATA
 ACTCTT

GAM93 DJ-1 3' CGTTAGGAATCCATTCTCA 1375 ACTAAA
 TGAGAAT ATTCCCTAACG
 ||||| |||||
 ACTCTTA TAAGGATTGC
 CC_

GAM93 FLJ10535 3' TAGGAATTTTATTCCCA 1787 A CT
 TG GAATA AAAATTCTTA
 ||||| |||||

AC CTTAT TTTTAAGGAT
 C _
 GAM93 FLJ10539 3' AGGATTAGTATCCTCA 1788 A T
 TGAG ATACTAAAAT CCT
 ||||| ||||| |||
 ACTC TATGATTTA GGA
 C _
 GAM93 PIB5PA 3' TTAGGAATTAAATTCTC 2739 ACTAA
 GAGAAT AATTCCCTAA
 ||||| |||||
 CTCTTA TTAAGGATT
 AA_ _
 GAM93 LOC149351 3' AGGAGTTAGTATCCTA 3130 A A
 TGAG ATACTAAA TTCCT
 ||||| |||||
 ATTC TATGATTT GAGGA
 C _
 GAM93 LOC157858 5' AGGGGAGTGTTCTCA 3384 AAAA
 TGAGAAACT TTCCCT
 ||||| |||||
 ACTCTTGTGA GGGGA

GAM94 DLG5 5' TGATACAGCACATAACT 3265 CCAC C
 AGTTA GTGCTGTA CA
 ||||| ||||| |||
 TCAAT CACGACAT GT
 AA_ A

GAM94 DVL3 3' CAATAATGGTAGCTATTA 1112 CG C
 TAATAGTTACCA TG TG
 |||||||| |||||
 ATTATCGATGGT AT AC
 AA A

GAM94 ENPP3 3' GTACACACAGTGACTATTA 1173 CAC C
 TAATAGTTAC GTG TGTAC
 ||||| ||| |||||
 ATTATCAGTG CAC ACATG
 A_ _

GAM94 FANCF 3' TGGTACAACCCAGGGGTAAACT 1998 _ ACGTGC_
 ATTA TAATAGTT ACC TGTACCA
 ||||| ||| |||||
 ATTATCAA TGG ACATGGT
 A GGACCCA

GAM94 PCDH11X 3' ACAGCACACAAGTGGCTATTG 2298 CAC_
 TAATAGTTAC GTGCTGT
 ||||| |||||
 GTTATCGGTG CACGACA
 AACAA

GAM94 PCDH11X 3' ACAGCACACAAGTGGCTATTG 2300 CAC_
 TAATAGTTAC GTGCTGT
 ||||| |||||

		GTTATCGGTG	CACGACA	
		AACA		
GAM94	PCDH11Y	3' ACAGCACACAAGTGGCTATTG	2302	CAC_
		TAATAGTTAC	GTGCTGT	
		GTTATCGGTG	CACGACA	
		AACA		
GAM94	FLJ10539	3' TACAGTATGACAACATT	1789	ACCA
		AATAGTT	CGTGCTGTA	
		TTATCAA	GTATGACAT	
		CA_		
GAM94	FLJ10898	3' TAGTCATT CGTGGTA ACTA	2528	T_
		TAGTTACCACG	GCTG	
		ATCAATGGTGC	TGAT	
		TTAC		
GAM94	KIAA0680	3' TGGTACAGTATAGTACCATTA	1530	A T CAC
		TAAT GT AC	GTGCTGTACCA	
		ATTA CA TG	TATGACATGGT	
		C _ A_		
GAM94	KIAA1804	3' GCAGTACAGTACTATT	2868	T CAC
		TAATAGT AC	GTGCTGT	
		ATTATCA TG	CATGACG	
		_ A_		
GAM94	MO25	3' TAGTAGTATGTA CTATT	1677	C_ G
		TAATAGTTAC	AC TGCTG	
		ATTATCAATG	TG ATGAT	
		TA _		
GAM94	RAB33B	3' ACAGCTGTAGTA CTAT	2190	C T
		ATAGTTAC ACG	GCTGT	
		TATCAATG	TGT CGACA	
		A _		
GAM94	RoXaN	3' TGGTACAGCACACATGTGAGC	2128	AC C_
		GTT CA	GTGCTGTACCA	
		CGA GT	CACGACATGGT	
		GT ACA		
GAM95	KIF13A	3' ACCGCAACAACTTGGTAGGA	1979	ATAG AT
		TCC TAC	AGTTGTTGCGGT	
		AGG ATG	TCAACAAACGCCA	
		___ GT		
GAM95	LOXL3	3' ACTCATCAGACCATGCACTATG	2264	A A GT_ C
		GA	TCCATAGT CAT GTT	TG GGT

AGGTATCA GTA CAG AC TCA
 C C ACT _
 GAM95 DKFZp547I014 5' CAGCTAACAAATGTACTACAGA 1901 CA A _
 TC TAGTACAT GTT GTTG
 || ||||| |||||
 AG ATCATGTA CAA CGAC
 AC A T

GAM95 Spir-1 3' ACCATGAACTCGTACTATG 2699 AT GTTGC
 CATAGTAC AGTT GGT
 ||||| ||||| |||||
 GTATCATG TCAA CCA
 C_ GTA_

GAM96 GCLC 3' AATTGTACAATACTTGCATTCC 833 CT__ C
 GGA AGTAT GTACAATT
 ||||| ||||| |||||
 CCT TCATA CATGTTAA
 TACGT A

GAM96 FLJ21324 5' AATTGTTGCCTAGTCCTGC 3513 TAT T
 GTAGGACTAG CG ACAATT
 ||||| ||||| |||||
 CGTCCTGATC GT TGTAA
 C __ _

GAM96 KIAA0193 3' AATTGTGATGTCCTAGTCCTAC 1543 T CG
 GTAGGACTAG AT TACAATT
 ||||| |||||
 CATCCTGATC TG GTGTTAA
 C TA

GAM96 LOC91097 3' AATTGTTGCCTAGTCCTGC 2705 TAT T
 GTAGGACTAG CG ACAATT
 ||||| |||||
 CGTCCTGATC GT TGTAA
 C __ _

GAM97 ADAMTS5 3' TTCAATAGATAACCACGAA 1353 GG A
 TTTGTGGTATT AT GAA
 ||||| |||||
 AAGCACCATAG TA CTT
 A_ A

GAM97 BCRP2 3' TTCTATCCAACATTCAA 2633 T A
 TTG GGT TTGGATAGAA
 ||||| |||||
 AAC TTA AACCTATCTT
 - C

GAM97 IL13RA1 3' TCTACTAAAATCACAA 835 A A
 TTTGTGGT TTGG TAGA
 ||||| |||||
 AAACATCA AATC ATCT
 A __

GAM97 IL1A 3' TCTACCCATATTACAGA 2634 T A
 TTTGTGGTAT GG TAGA
 ||||| |||||

AGACATTATA CC ATCT
C _
GAM97 ISL1 3' TCTATTTGCCACAAG 906 TT
TTTGTGGTA GGATAGA
||||||| |||||
GAACACCGT TTTATCT

GAM97 MITF 3' TTCTATTTACAACATACAAA 721 ATT_
TTTGTGGT GGATAGAA
||||||| |||||
AACATCA TTTATCTT
ACAT

GAM97 NCF2 3' TTCTGTGTCATACCACAA 742 T _
TTGTGGTAT GG ATAGAA
||||||| |||||
AACACCATA CT TGTCTT
_ G

GAM97 NEDD4L 3' TTCTACTCAACATACAAA 1618 AT GA
TTTGTGGT TG TAGAA
||||||| |||||
AACATCA AC ATCTT
_ TC

GAM97 NR3C1 3' TTCTATCCTACAACAAAG 717 G TT
TTTGT GTA GGATAGAA
||||||| |||||
GAACA CAT CCTATCTT
A _

GAM97 PDK4 3' TTCTATTTCCCCACAAA 3733 TATT
TTTGTGG GGATAGAA
||||||| |||||
AACACCC TTTATCTT
CCT_

GAM97 PSEN1 3' TTCTACTTTGCCACAGA 1393 TT A
TTTGTGGTA GG TAGAA
||||||| |||||
AGACACCGT TC ATCTT
T_ _

GAM97 RAG1 3' TTCTTTCCACCAACAAA 746 ATT T
TTTGTGGT GGA AGAA
||||||| |||||
AACACCCA CCT TCTT
_ T

GAM97 SYNGR1 3' TTCTGTGCCACCAAG 1148 ATT _
TTTGTGGT GG ATAGAA
||||||| |||||
GAACACCA CC TGTCTT
C__ G

GAM97 TOX 5' TTCTTAAACAAACCAACAAA 1534 A GAT_
TTTGTGGT TTG AGAA
||||||| |||||

		AAACACCA AAC TCTT _ AAAT
GAM97	TRPC6	3' TTCTATCCTTCTACCCAAA 1135 T TT_
		TTTG GGTA GGATAGAA
		AAAC CCAT CCTATCTT _ CTT
GAM97	AF9Q34	3' TTCTACACACTCAGCCACAAA 2258 AT__ GA
		TTTGTGGT TG TAGAA
		AACACCG AC ATCTT ACTC AC
GAM97	C1QR1	3' TTCCATCCTCATCACAAAG 1402 ATT A
		TTTGTGGT GGAT GAA
		GAACACTA CCTA CTT CT_ C
GAM97	FLJ10193	3' TCTGACAGATAACCACGAA 1775 GGA
		TTTGTGGTATT TAGA
		AAGCACCATAG GTCT ACA
GAM97	FLJ10989	3' CTATTTACTGATCACAAA 1810 AT_
		TTTGTGGT TGGATAG
		AACACACTA ATTTATC GTC
GAM97	FLJ20700	3' TTCTACCAAAACTACAAA 1767 A A
		TTTGTGGT TTGG TAGAA
		AACACATCA AACC ATCTT A _
GAM97	FLJ31101	3' TTCTATCTAGCACAA 1772 GTA
		TTGTG TTGGATAGAA
		AACAC GATCTATCTT
GAM97	KIAA0252	3' TCTACTAAACTACAAA 2638 A A
		TTTGTGGT TTGG TAGA
		AACACATCA AATC ATCT A _
GAM97	KIAA0416	3' TCATTTCAAACCACAAA 1638 A TA
		TTTGTGGT TTGGA GA
		AACACCCA AACTT CT _ TA
GAM97	KIAA0445	5' TCTACTAAACTACAAA 1519 A A
		TTTGTGGT TTGG TAGA

AAACATCA AATC ATCT
A _
GAM97 KIAA0493 5' TTCTACTTCCACCACAAAG 2683 ATT _
TTTGTGGT GGA TAGAA
|||||| |||||
GAACACCA CCT ATCTT
TC

GAM97 KIAA0753 3' TCTATTTCATACCACAAA 1553 TG
TTTGTGGTAT GATAGA
||||||| |||||
AACACCCATA TTATCT
CT
GAM97 KIAA0781 3' TTCTGCCCAACACACAAA 2794 ATT A
TTTGTGGT GG TAGAA
|||||| | |||||
AACACCA CC GTCTT
CC _ _
GAM97 KIAA0825 3' TTCTATCTAACACATAA 2589 GTA
TTGTG TTGGATAGAA
||||| |||||||
AATAC AATCTATCTT
AC _
GAM97 KIAA0831 3' TTCTATCCGGTAGTCACAAA 1590 -
TTTGTGG TATTGGATAGAA
||||||| |||||||
AACACT ATGGCCTATCTT
G
GAM97 KIAA1172 3' TTCTATTTAAAAATAGCCACAA 2897 A ____
A TTTGTGGT TTGGATAGAA
||||||| |||||||
AACACCG AATTTATCTT
ATAAA
GAM97 KR18 3' TTCTATCCAATTTGTGAA 2325 TG T
TTTG G ATTGGATAGAA
||| | |||||||
AAGT T TAACCTATCTT
GT _
GAM97 MAPK13 3' TCTAACGAATTACCAACAAA 953 GA
TTTGTGGTA TTG TAGA
||||||| |||||
AACACCAT AGC ATCT
TA A _
GAM97 MGC11386 3' TCTACTAAAATACACAAA 2296 A A
TTTGTGGT TTGG TAGA
||||||| |||||
AACATCA AATC ATCT
A _
GAM97 PRO0641 3' TCTGCCAATAACCAACAAA 1477 - A
TTTGTGGT ATTGG TAGA
||||||| |||||

AAACACCA TAACC GTCT
 A _
 GAM97 PRO0902 3' TCTACCTTGCCACAAG 2358 TT A
 TTTGTGGTA GG TAGA
 ||||| |||||
 GAACACCGT CC ATCT
 TT _
 GAM97 SMAP-5 3' TCTACTAAA ACTACAAA 2168 A A
 TTTGTGGT TTGG TAGA
 ||||| |||||
 AACATCA AATC ATCT
 A _
 GAM97 SPRY4 3' TCTACTAA ACTACAAA 2177 A A
 TTTGTGGT TTGG TAGA
 ||||| |||||
 AACATCA AATC ATCT
 _ _
 GAM97 USP24 3' TCTACGATGCTACAAA 3512 GA
 TTTGTGGTATTG TAGA
 |||||||| |||||
 AACATCGTAGC ATCT
 _ _
 GAM97 ZNF304 3' TTCATTGTATA ACCACAA 1921 TG A
 TTGTGGTAT GAT GAA
 ||||| |||||
 AACACCATA TTA CTT
 TG _
 GAM97 LOC121344 3' TCTACCTCAGTTGCCACAAA 2990 TT__ A
 TTTGTGGTA GG TAGA
 ||||| |||||
 AAACACCGT CC ATCT
 TTGACT _
 GAM97 LOC144266 5' TTCTGTCCCACCAGAAA 3065 G ATT
 TTT TGGT GGATAGAA
 ||| |||| |||||
 AAA ACCA CCTGTCTT
 G C__
 GAM97 LOC145241 3' CTTACGTCAGTACCACAAA 2640 AT__
 TTTGTGGTATTGG AG
 ||||| |||||
 AACACCATGACT TC
 GCAT
 GAM97 LOC148545 5' TCTACCTCTGCCACAAA 3120 TT __
 TTTGTGGTA GGA TAGA
 ||||| |||||
 AAACACCGT TCT ATCT
 CT CC
 GAM97 LOC149073 5' TTCTGATGACAA ACCACAAA 3305 A GA__
 TTTGTGGT TTG TAGAA
 ||||| |||||

AAACACCA AAC GTCTT
 _ AGTA
 GAM97 LOC149448 3' CTGTAACAAAATACCACAAA 3309 GG_____
 TTTGTGGTATT ATAG
 ||||||| ||||
 AAACACCATAA TGTC
 AACAA
 GAM97 LOC149579 5' TCTACTAAAATACACAAA 2907 A A
 TTTGTGGT TTGG TAGA
 ||||||| |||||
 AAACATCA AATC ATCT
 A _
 GAM97 LOC152641 5' TTCTAGGGAAACCACAAA 3173 A GGA
 TTTGTGGT TT TAGAA
 ||||||| |||||
 AAACACCA AG ATCTT
 A GG_
 GAM97 LOC169966 3' TTCTATCATCATCTACTACACAAA 3253 TTG_____
 TTTGTGGTA GATAGAA
 ||||||| |||||||
 AAACATCAT CTATCTT
 CTACTA
 GAM97 LOC222234 3' TCTGTAACAAAATTACCACAAA 3647 __ G_
 TTTGTGGTA TTG ATAGA
 ||||||| III |||||
 AAACACCAT AAC TGTCT
 TA AA
 GAM97 LOC254058 3' TTCTAACCAACCACAAG 3735 ATT A
 TTTGTGGT GG TAGAA
 ||||||| |||||
 GAACACCA CC ATCTT
 ___ A
 GAM97 LOC51110 3' TTCTGGTATACCACAAA 1657 TGGA
 TTTGTGGTAT TAGAA
 ||||||| |||||
 AAACACCATA GTCTT
 TG_
 GAM97 LOC51292 3' TCTATCTGCACACACACAAA 1698 __ ATT
 TTTGTG GT GGATAGA
 ||||||| |||||
 AAACAC CA TCTATCT
 A CG_
 GAM97 LOC92573 5' TTCTGGCCACCAAGA 2870 ATT A
 TTTGTGGT GG TAGAA
 ||||||| |||||
 AGACACCA CC GTCTT
 ___ G
 GAM98 AVP 5' AGCTCCTAGGCCAGGGCCTGTC 752 A AGA_
 GACAG CC CCTAGGAGCT
 ||||| || ||||| |

CTGTC GG GGATCCTCGA
C GACC

GAM98 HTRA3 3' CTGCAGGTCTGGGCTGCCA 3457 A A A_
TG CAG CCAGACCT GG
|| ||| ||||| ||
AC GTC GGTCTGGA TC
C G CG

GAM98 LGALS3BP 3' AGCCCCTGGTCAGTCTG 2851 CA T A
CAGAC GACC AGG GCT
||||| ||||| |||||
GTCTG CTGG TCC CGA
A_ _ C

GAM98 MAD2L1 3' TAGCTCCTTTGACCTCA 921 C AC CCT
TGA AG CAGA AGGAGCTA
||| ||| |||||
ACT TC GTTT TCCTCGAT
_ CA __

GAM98 PYGM 5' TAGCTCCCTGAGCTGCCA 1230 A AC ACCTA
TG CAG CAG GGAGCTA
|| ||| ||| |||||
AC GTC GTC CCTCGAT
C GA __

GAM98 SLC35A3 3' TTCTGGGTCTGATCTGTCA 1418 C
TGACAGA CAGACCTAGGA
||||| |||||
ACTGTCT GTCTGGGTCTT
A

GAM98 ATPAF1 3' ATAGCTCCCAAATGATGAGTTT 2583 _ GACCTA_
GTCA TGACAGAC CA GGAGCTAT
||||||| ||| |||||
ACTGTTG GT CCTCGATA
A AGTAAAC

GAM98 C7orf13 3' CTTAAGTCTGGTCCCTCA 2265 CA C
TGA GACCAGAC TAGG
||| ||||| |||||
ACT CTGGTCTG ATTG
CC A

GAM98 CBLC 3' CTGCCAACGCTGGTCTGTCA 1407 AC A _
TGACAGACCAAG CT GG AG
||||| ||| |||||
ACTGTCTGGTC GA CC TC
C_ A G

GAM98 FLJ10241 3' AGCTCCTGTCAACCCTGTCA 1776 ACCA CT
TGACAG GAC AGGAGCT
||||| ||| |||||
ACTGTC CTG TCCTCGA
CCA_ __

GAM98 FLJ20651 3' CCAAGCTTGGTCTGTCA 1761 AC A
TGACAGACCAAG CT GG
||||||| |||||

		ACTGTCTGGTT	GA CC		
		C_ A			
GAM98	KIAA1203	3' CTTCAGATCCTGTCTGTCA	2922	CA C A	
		TGACAGAC	GA CT GGAG		
		ACTGTCTG	CT GA CTTC		
		TC A _			
GAM98	PL6	3' AGCTCCTGGGCCGGCCCTCA	1348	CAGA AGA	
		TGA CC	CCTAGGAGCT		
		ACT GG	GGGTCCCTCGA		
		CCC_ CC_			
GAM98	SRCRB4D	3' AGCTCCTACCTTGGGCCCTCA	2386	CAGA ACC	
		TGA CCAG	TAGGAGCT		
		ACT GGTT	ATCCTCGA		
		CCCG CC_			
GAM98	SYNPO2	3' AGCAGCTCTGGTCTGTCA	2928	C AGGA	
		TGACAGACCAGA CT	GCT		
		ACTGTCTGGTCT	GA CGA		
		C _			
GAM98	LOC145858	5' CCTAGGTCTGGCCTCA	3085	C A	
		TGA AG CCAGACCTAGG			
		ACT TC GGTCTGGATCC			
		_ C			
GAM98	LOC151162	5' AGCTCCTAGAGGCTGCTCA	3338	_ A AGAC	
		TGA CAG CC CTAGGAGCT			
		ACT GTC GG GATCCTCGA			
		C _ A_			
GAM98	LOC196410	5' AGCTCAGAGCTGGTCTGCCA	3411	A AC AG	
		TG CAGACCAG CT GAGCT			
		AC GTCTGGTC GA CTCGA			
		C _ GA			
GAM98	LOC203339	5' AGCTCCTAGGAATTCTCTCA	3489	C CCAGA	
		TGA AGA CCTAGGAGCT			
		ACT TCT GGATCCTCGA			
		C TAA_			
GAM98	LOC203377	5' AGCTCCTAGAGGCTGCTCA	3490	_ A AGAC	
		TGA CAG CC CTAGGAGCT			
		ACT GTC GG GATCCTCGA			
		C _ A_			
GAM99	SEL1L	3' CAAGAAAATTAAAACGATCCC	1179	AA TT	
		AA	TTG ATTGTTTT ATTTCTTG		

AAC TAGCAAAA TAAAAGAAC
 CC TT
 GAM99 DKFZP564O1863 3' AAAGTAAATACAATTCAA 2826 TT
 TTGAAATTGT TTTATTTT
 ||||||| |||||
 AACTTAACA AAATGAAA
 T_

GAM99 LOC129446 3' CAAGAAAAATGAGAACATTTC 3042 T TA
 AA TTGAAA TGTTTT TTTCTTG
 ||||| ||||| |||||
 AACTTT ACAAGAG AAAAGAAC
 T TA

GAM100 CYP19 3' AAAAAGCAGAGGCCAAGAGTTT 705 ATGAT_ C
 G CAAA GCCTCTGC TTTT
 ||||| ||||| |||||
 GTTT CGGAGACG AAAA
 GAGAAC A

GAM100 CYP19 3' AAAAAGCAGAGGCCAAGAGTTT 2185 ATGAT_ C
 G CAAA GCCTCTGC TTTT
 ||||| ||||| |||||
 GTTT CGGAGACG AAAA
 GAGAAC A

GAM100 F8 3' AAAGGCAAATCATTTGGA 707 A GCCTC
 TCCAAA TGAT TGCCTTT
 ||||| ||||| |||||
 AGGTT ACTA ACGGAAA
 _ A_

GAM100 MSR1 3' AAAAGGCAAAACCTTACCTTGG 2453 AA TGCCTC
 A TCCAA TGA TGCCTTTT
 ||||| ||||| |||||
 AGGTT ATT ACGGAAAA
 CC CCAA_

GAM100 MSR1 3' AAAAGGCAAAACCTTACCTTGG 2454 AA TGCCTC
 A TCCAA TGA TGCCTTTT
 ||||| ||||| |||||
 AGGTT ATT ACGGAAAA
 CC CCAA_

GAM100 PCDHB16 3' AAAAGGCAAAGGTATTAT 1931 C
 ATGATGCCT TGCCTTTT
 ||||| |||||
 TATTATGGA ACGGAAAA
 A

GAM100 QPCT 3' AAAAGTCAAGGCATCATT 1428 C C
 AAATGATGCCT TG CTTTT
 ||||||| |||||
 TTTACTACGGA AC GAAAA
 _ T

GAM100 TWIST 3' AAAGGAAAGGCATCACTATGGA 750 AAA CTG
 TCCA TGATGCCT CCTTT
 ||||| ||||| |||||

AGGT ACTACCGA GGAAA
ATC AA_
GAM100 ATP9A 3' AAAGGCAGAGGCATCTTCGGA 2617 A T
TCC AAA GATGCCTCTGCCTTT
||| ||| |||||||||
AGG TTT CTACGGAGACGGAAA
C _

GAM100 CALN1 3' CAGAAATATCATCTTGGA 2207 A CC
TCCAA ATGATG TCTG
||||| ||||| |||||
AGGTT TACTAT AGAC
C AA

GAM100 FLJ23277 3' AAAAGGCAGAAATCCATTCA 2238 _ CC_
TGA TG TCTGCCTTT
||| ||| |||||||||
ACT AC AGACGGAAAA
T CTAA

GAM100 KIAA0992 3' AAAAGGCAGAACATACCTTG 1661 ATG CC
CAAAT ATG TCTGCCTTT
||| ||| |||||||||
GTTT TAC AGACGGAAAA
CCA AA

GAM100 KIAA1045 3' AAAAGGCAGAACAGTTTG 2906 GA CC
CAAAT TG TCTGCCTTT
||||| ||| |||||||||
GTTTG AC AGACGGAAAA
— A_

GAM100 KIAA1056 3' AAAGGCAGAGAGGCCAGGA 1575 AAAA AT —
TCC TG GCCTCT GCCTTT
||| ||| ||||| |||||
AGG AC CGGAGA CGGAAA
— — — GA

GAM100 KIAA1323 3' AGGGGAGAGGCACATTTT 2646 A G
AAAATG TG CCTCT CCTT
||||| ||||| |||||
TTTTAC ACGGAGA GGGA
— G

GAM100 LMOD1 3' AGGTGAAAGGCATCTTCTG 1409 A T CT_
CA AA GATGCCT GCCT
||| ||||| |||||
GT TT CTACGGA TGGA
C T AAG

GAM100 RNF32 3' AAAAAGTTACCATCTTTGG 2172 CCTCT C
A TCCAAAATGATG GC TTTT
||||||||| ||| |||||
AGGTTTTACTAC TG AAAA
CATT_ A

GAM100 SS-56 3' AAAAAGCAGAGGCCAGTCA 2535 — C
TGAT GCCTCTGC TTTT
||| ||||| |||||

ACTG CGGAGACG AAAAA
ACC A
GAM100 LOC122792 3' AAAAGTGCCTTGCATCATT 2518 CTCT _
AAATGATGC GC CTTTT
|||||| || |||||
TTTACTACG CG GAAAA
TTC_ T

GAM100 LOC146512 3' GCAGTGCAAACATCATTGGGA 3094 CCT__
TCCAAAATGATG CTGC
|||||||||| |||||
AGGTTTACTAC GACG
AAACGT

GAM100 LOC201633 3' CAGAGGCATCTCTGGA 3483 A T
TCCA AA GATGCCTCTG
||| || |||||||
AGGT TT CTACGGAGAC
C _

GAM100 LOC202126 3' AAAAGCAAGTATCATTGGGA 3486 A CTC C
TCCAAA TGATGC TGC TTTT
||||| ||||| |||||
AGGTTT ACTATG ACG AAAA
_ A_ A

GAM100 LOC221755 3' CAGAGGCCCATCTTGGA 3563 A A
TCCAA ATG TGCCTCTG
||||| |||||||
AGGTT TAC GCGGAGAC
C C

GAM100 LOC257334 3' GCAGAGGCACCATCTGG 3734 A A
CCAA ATG TGCCTCTGC
||| || |||||||
GGTT TAC ACGGAGACG
C C

GAM101 ANGPT1 3' ACTGAAACATGCTTACCGATT 804 CATCTC_
CA TGAATC TATGTTTCAGT
||||| |||||||||
ACTTAG GTACAAAGTCA
ACCATTC

GAM101 GPR61 5' ACTGAAATTAGAAGATTCA 3123 CATC AT
GTGAATC TCT GTTTCAGT
||||| || |||||
CACTTAG AGA TAAAGTCA
A_ CT

GAM101 PPP1R12B 3' ACTGAAACCCGGAACAGATT 2228 CATC AT
GAATC TCT GTTTCAGT
||||| || |||||
CTTAG AGG CAAAGTCA
ACA_ CC

GAM101 TRIM9 3' ACTTCTATATAGAGATAGACTT 1610 A C TTC
AC GTGA TC ATCTCTATGT AGT
||||| || ||||| |||

CATT AG TAGAGATATA TCA
 C A TCT
 GAM101 YWHAE 3' ACTGAAACACAGCATGGAATTA 1329 A CT A
 TGA TCCAT CT TGTTTCAGT
 ||||| |||||||||
 ATT AGGTA GA ACAAAGTCA
 A C_ C

GAM101 AKAP9 3' ACTGAAATAAAAATGACTTCAC 1242 TC CTCTA
 GTGAA CAT TGTTTCAGT
 ||||| |||||||||
 CACTT GTA ATAAAGTCA
 CA AAA_

GAM101 LOC166824 3' ACTGAAACATAATCAATGGATT 3259 CTC_
 CA TGAATCCAT TATGTTTCAGT
 ||||| |||||||||
 ACTTAGGTA ATACAAAGTCA
 ACTA

GAM101 LOC254835 3' TGAAGCAAGAGACAGACCCAC 3722 AA CA A
 GTG TC TCTCT TGTTCA
 ||| || |||||
 CAC AG AGAGA ACAGAAGT
 CC AC -

GAM102 PNPASE 3' CTGAGGCAGAAGAACATCACTTC 2900 GATG G
 GAAGTGATTCTTT GT TCAG
 ||||||||| || |||||
 CTTCACTAAGAAG CG AGTC
 A__ G

GAM102 SEC24D 3' CAGTATCAATAAACACTTC 1559 CT G
 GAAGTGATT TTGATG TG
 ||||| ||||| ||
 CTTCACTAA AACTAT AC
 AT G

GAM102 LOC131000 3' CTGACCTTGAAATAAACACTT 3037 CT GAT T
 C GAAGTGATT TT GG GTCAG
 ||||| || |||||
 CTTCACTAA AA TC CAGTC
 AT AGT -

GAM102 LOC151658 5' GAAGTCTCAAAGCATCACTTC 3349 T T TG
 GAAGTGAT CTTGA GG TC
 ||||| || |||||
 CTTCACTA GAAACT CT AG
 C _ GA

GAM102 LOC257428 3' GCACCTTCAAAGAACATCC 3649 A T
 A GTGATTCTTGAGGTGT
 | ||||||| |||||
 C TACTAAGAAACT TCACG
 C T

GAM103 CARD15 3' GTAAATAATCAGAGGGGAAATA 1983 GGA TC
 A TTTGTT T CTGATTATTTAC
 ||||| | |||||||||

AAATAA G GACTAATAAATG
 GG_ GA
 GAM103 CLCN4 3' AAATAACAGAAAACCCAGCAAA 861 ATTC_ A
 TTTGTTGG CTG TTATT
 ||||| |||||
 AAACGACC GAC AATAAA
 CAAAA_

GAM103 FGF2 3' TAAATAATTTATAATTCAACA 885 CCT_
 AA TTTGTTGGATT GATTATT
 ||||||| |||||||
 AAACAACCTAA TTAATAAAAT
 TATT

GAM103 ZNF135 3' TGGTGAGAAACCCAACAAA 1022 A C G
 TTTGTTGG TT CT ATTA
 ||||| ||| |||
 AAACAACC AA GA TG GT
 C A G

GAM103 SEC15B 3' AATTAAAAATCCAACAAA 2757 CC
 TTTGTTGGATT TGATT
 ||||||| |||||
 AAACAACCTAA ATTAA
 AA

GAM103 ZNF334 3' AAGTAATAAAATCCAACAAA 1780 TTCCTG
 TTTGTTGGA ATTATT
 ||||||| |||||||
 AAACAACCT TAATGAA
 TAAA_

GAM103 LOC158954 3' TGGTGAGAAATCCAACAAA 2567 C G
 TTTGTTGGATT CT ATTA
 ||||||| ||| |||
 AAACAACCTAA GA TG GT
 A G

GAM103 LOC219686 3' GTAATTGGAAAAAAATCCAATAA 3500 C__ TG
 A TTTGTTGGATT C ATTAT
 ||||||| | |||||
 AAATAACCTAA G TAATG
 AAAA GT

GAM103 LOC221510 3' AAATAATCAAACCCAACA 3508 A CC
 TGTTGG TT TGATTATT
 ||||| ||| |||||
 ACAACC AA ACTAATAAA
 C A_

GAM104 PLN 3' TAATAGCCTACTATTGACC 947 C _
 GG CAATAGTAG CTATTA
 || ||||||| |||||
 CC GTTATCATC GATAAT
 A C

GAM104 PRRG1 3' GTAATAGCTCTATCAGCC 789 CA T
 GGC ATAG AGCTATTAC
 ||| ||||| |||||

CCG TATC TCGATAATG
 AC _
 GAM104 LOC149320 3' GCGGCAGCTACTACTGCC 2892 CAA ATTA
 GGC TAGTAGCT CCGT
 ||| ||||| |||
 CCG ATCATCGA GGCG
 TC_ C__
 GAM104 LOC163782 5' ACGGATGCCACTATTGGGC 3234 G A TATTA
 G CCAATAGT GC CCGT
 | ||||| |||
 C GGTTATCA CG GGCA
 G C TA__
 GAM105 FLJ12668 3' ACTTGAGCAAATAATTGGGATG 2123 CCAA AG
 A TTATCCCAATTA CT AAGT
 ||||| ||| |||||
 AGTAGGGTTAAC GA TTCA
 AAAC G__
 GAM105 KIAA0016 3' ACTTTTAAGGTAACTGGGATGA 1542 A AAC
 TTATCCCA TTACC TAGAAGT
 ||||| |||| |||||
 AGTAGGGT AATGG ATTTCA
 C A__
 GAM105 ZAK 3' ACTTCCAGTTTTGGATTGGGA 1708 ACC_ A
 TCCCAATT AACT GAAGT
 ||||| |||| |||||
 AGGGTTAG TTGA CTTCA
 GTTT C
 GAM105 LOC58489 3' TGGTTGGTAATGGAATAA 2952 C A
 TTAT CCA TTACCAACTA
 ||||| |||||
 AATA GGT AATGGTTGGT
 A__
 GAM106 IL1R1 3' AGAACATCCTCCAATTCC 782 CG A
 GGAATTGGAGG ATG TCT
 ||||| ||| |||
 CCTTAACCTCC TAC AGA
 ___ A
 GAM106 SUFU 3' ATCAGTCGCCTCCATTCC 1668 T __
 GGAAT GGAGGCGA TGAT
 ||||| |||||
 CCTTA CCTCCGCT ACTA
 ___ TG
 GAM106 CGRP-RCP 5' AAGATCATCGCACCCCC 1503 AATT AG
 GG GG GCGATGATCTT
 ||| ||| |||||
 CC CC CGCTACTAGAA
 ___ CA
 GAM106 LOC152348 5' ATCAGTCACCAATTCC 3358 A C __
 GGAATTGG GG GA TGAT
 ||||| ||| |||||

CCTTAACC CC CT ACTA
A A G

GAM106 LOC158219 3' ATCATTGCCCCAACTCC 3214 A A
GGA TTGG GGCGATGAT
||| |||||
CCT AACCC CCGTTACTA
C C

GAM106 LOC255177 3' AGAACACCTCTAACATCC 3711 A C GA
GGA TTGGAGG GAT TCT
||| ||||| |||
CCT AATCTCC CTA AGA
A

GAM106 LOC90522 3' AGGCACCGCCTCCATCC 2651 AT A A
GGA TGGAGGCG TG TCT
||| ||||| |||
CCT ACCTCCGC AC GGA
C

GAM107 CEACAM4 3' CTCTGAGTCCTGAGGAG 860 CC TCGT
CTCC TAG ACTCAGAG
||| |||||
GAGG GTC TGAGTCTC
A_ C__

GAM107 MGC11115 3' CTCTGAGGCCAGGGGAGC 2244 AGTC A
GCTCCCCT GT CTCAGAG
|||||| |||||||
CGAGGGGA CG GAGTCTC
CC_ _

GAM107 PRO2714 5' CTCTAACACAAGGGGAGCG 1837 A C ACTC
CGCTCCCCT GT GT AGAG
|||||| |||||
GCGAGGGGA CA CG TCTC
A A AA_

GAM107 LOC147057 3' CTCTGAGTATTGGGAAGAGAGG 3288 G_ C_ GTC
C GC CTC CCTA GTACTCAGAG
||| ||||| |||||
CG GAG GGGT TATGAGTCTC
GA AA _

GAM107 LOC147976 3' CTCTGGTGTGACTAAGGAAAG 3114 CC _ T
CT CCT AGTCGTAC CAGAG
||| ||||| |||||
GA GGA TCAGTGTG GTCTC
AA A _

GAM107 LOC57100 3' CTCTGAGTACCCCTGGCGGGAGG 1917 G _ TC
C GC CTCCC CTAG GTACTCAGAG
||| ||||| |||||
CG GAGGG GGTC CATGAGTCTC
_ C C_

GAM108 E2F3 3' ACAAACCTCGAACGAAACAGTT 875 TCA A A
AA TTAGCTGTTT TC AG TTTGT
||||||| |||||

AATTGACAAG AG TC AAACA
CAA C C

GAM108 SCML1 3' ACAGAGAACCAAAACAGCTAA 1328 CATCAAGA
TTAGCTGTTT TTTGT
||||||| |||||
AATCGACAAAA AGACA
CCAAG_

GAM108 KIAA1468 3' ACAAATCCTACAGTCATAAGCT 3541 TTCATCAA
AA TTAGCTGTT GATTGT
||||||| |||||
AATCGATAA CTAAACA
CTGACATC

GAM108 MGC16025 3' ACAAATCTCCAAGAAAACAGCT 2295 ATCA
AGCTGTTTC AGATTGT
||||||| |||||
TCGACAAAAAG TCTAAACA
AACC

GAM108 LOC148545 3' CTTGATAAAAACAACCAA 3119 C C
TTAG TGTTTT ATCAAG
||||||| |||||
AATC ACAAAA TAGTTC
A A

GAM108 LOC163669 5' ACAAATCTTGACGAACAC 3233 T A
GT TTC TCAAGATTGT
|| ||| |||||||
CA AAG AGTTCTAAACA
C C

GAM108 LOC51652 3' ACAAAATAAGGAAAACAGCT 1660 ATCAAG
AGCTGTTTC ATTGT
||||||| |||||
TCGACAAAAAG TAAACA
GAA_

GAM109 CXCL13 3' GTTATTCAAGTTATAAGTAATA 1299 T
TATTATTATAACTGA GTAAC
||||||||| |||||
ATAATGAATATTGACT TATTG

GAM109 RASGRP1 3' ATCAGTGGCTTAAATAATA 1241 TA_
TATTATTAA ACTGAT
||||||| |||||
ATAATAAAAT TGACTA
TCGG

GAM109 HTGN29 3' GGGTCATTATCACTTAAATAAT 1899 TAAC TA_
A TATTATTAA TGATG ACCC
||||||| ||||| |||||
ATAATAAAAT ACTAT TGGG
TC_ TAC

GAM109 KIAA1430 3' GGACCACATCAGTTGCAA 3179 A AA_
TTT TAACTGATGT CC
||| ||||||| ||

AAA GTTGACTACA GG
 C CCA
 GAM109 KIAA1764 5' GCTTCAGTTATAAAATAGTA 2850 T
 TATTATTTATAACTGA GT
 ||||||||| |||
 ATGATAAAATATTGACT CG
 T
 GAM109 ZAK 3' TATCAGTTCAAATAATA 2428 AT
 TATTATTT AACTGATG
 ||||||| |||||
 ATAATAAA TTGACTAT
 CT
 GAM109 LOC151571 5' GGTTATATACATCATAAATGA 3348 AACTG
 TTATTTAT ATGTAACC
 ||||||| |||||
 AGTAAATA TATATTGG
 CTACA
 GAM109 LOC196989 3' GGGCACATAGAGCTATAAATAA 3470 A G_ AA
 TTATTTATA CT ATGT CC
 ||||||| ||| |||
 AATAAAATAT GA TACA GG
 C GA CG
 GAM109 LOC221431 3' TATATCAGGTCTAAATAATA 3553 AA_
 TATTATTTAT CTGATGTA
 ||||||| |||||
 ATAATAAAATA GACTATAT
 CTG
 GAM110 COL12A1 3' AACCTCCTGTTTAGACAC 1102 CTAGT
 GTGTCTAA GGAGGTT
 ||||||| |||||
 CACAGATT CCTCCAA
 TTGTT
 GAM110 COL12A1 3' AACCTCCTGTTTAGACAC 2380 CTAGT
 GTGTCTAA GGAGGTT
 ||||||| |||||
 CACAGATT CCTCCAA
 TTGTT
 GAM110 FLJ25473 5' AACCTCCGAAAGCTCAGCACAC 2496 _ AA_ AG
 GTGT CT CT TGGAGGTT
 ||||| | | |||||
 CACA GA GA GCCTCCAA
 C CTC AA
 GAM111 ANK1 5' CAGCCCCAGCTGCTCCTCCTC 699 A TC C A
 GAGGAGGA TA GT GG GCTG
 ||||||| ||| |||||
 CTCCTCCT GT CG CC CGAC
 C __ A C
 GAM111 ANK1 5' CAGCCCCAGCTGCTCCTCCTC 1918 A TC C A
 GAGGAGGA TA GT GG GCTG
 ||||||| ||| |||||

		CTCCTCCT GT CG CC CGAC C _ A C	
GAM111	CDH5	3' CAGCCCAGCACCCCTTCCTCG 857 CGAGGAGG GT GG GCTG GCTCCTTC CG CC CGAC CCCA_ A _	AATATC C A
GAM111	DSP	5' CAGCTCCGACGCAGCTCCTC 1110 GAGGAG CGTCGGAGCTG CTCCTC GCAGCCTCGAC GAC_	GAATAT
GAM111	GDF5	3' AGCCCACCATTCTCCTC 755 GAGGAGGAAT GT GG GCT CTCCTCTTTA CA CC CGA C_ _ -	ATC C A
GAM111	OGDH	3' CAGCTCTGGCCACAATCCTCC 3510 GGAGGA GTCGGAGCTG CCTCCT CGGTCTCGAC AACAC	ATATC
GAM111	RFX2	3' CAGCCCCGGCCGGCGCCTCCTC 765 G CGAGGAGG GTCGG GCTG GCTCCTCC CGGCC CGAC GCGGC_ C	AATATC A
GAM111	SET7	5' CAGCCCCGACTGCTCCTCCTC 2153 GAGGAGGA TA GTCGG GCTG CTCCTCCT GT CAGCC CGAC C _ C	A TC A
GAM111	C17orf31	3' CAGCTCCCCCTTCACCCCTCCT 1723 TG CGAGGAGG GGAGCTG GTTCCTCC CCTCGAC CCACTTCCC	AATATCGTC
GAM111	caspr5	5' CAGCTCCGAAGAATCCCCCG 2396 CG GG GGA TC TCGGAGCTG GC CC CCT AG AGCCTCGAC _ _ A_ A	A A ATA G
GAM111	caspr5	5' CAGCTCCGAAGAATCCCCCG 2462 CG GG GGA TC TCGGAGCTG GC CC CCT AG AGCCTCGAC _ _ A_ A	A A ATA G
GAM111	CECR2	5' AGCCCCGCCCCCTTCCTCG 2192 CGAGGAGG G CGG GCT 	AATATC T A

	GCTCCTCC	C GCC CGA		
	CC_____C			
GAM111	DKFZP434P0111 3'	CAGCCCCGGGCCATTCCCTCC	2790	ATC A
	GGAGGAAT	GTCGG GCTG		
	CCTCCTTA	CGGCC CGAC		
	CC_ C			
GAM111	FLJ10634 3'	CAGCTCCAGCCATCCACCCCTC	1791	A AAT C C
	GAGG GG	AT GT GGAGCTG		
	CTCC CC	TA CG CCTCGAC		
	_ ACC C A			
GAM111	FLJ32334 3'	CTCCAAAACGCTATTCCCTC	2483	T C__
	GGAGGAATA CGT	GGAG		
	CTTCCTTAT GCA	CCTC		
	C AAA			
GAM111	FLJ32894 3'	CTCTGGTTCCCTCCTC	2491	TATCG
	GAGGAGGAA	TCGGAG		
	CTCCTCCTT	GGTCTC		
	T__			
GAM111	KIAA0711 5'	AGTTGGACACACCCCTCCTCG	1572	AATATC G G
	CGAGGAGG	GTC GA CT		
	GCTCCTCC	CAG TT GA		
	CCACA_ G _			
GAM111	KIAA1649 3'	CAGCTGGAAGACATTCCTCC	2245	A G GG
	GGAGGAAT TC TC	AGCTG		
	CCTCCTTA AG AG	TCGAC		
	C A G_			
GAM111	KIAA1649 3'	CAGCTGGAAGACATTCCTCC	2770	A G GG
	GGAGGAAT TC TC	AGCTG		
	CCTCCTTA AG AG	TCGAC		
	C A G_			
GAM111	MGC30052 3'	AGTACATCATTCCCTCCTC	2500	ATC CGGA
	GAGGAGGAAT GT	GCT		
	CTCCTCCTTA CA	TGA		
	CTA __			
GAM111	MGC4737 3'	CAGCCCCATCTCCTCCTCCTC	2206	ATATC C A
	GAGGAGGA	GT GG GCTG		
	CTCCTCCT	TA CC CGAC		
	CCTC_ C _			
GAM111	LOC115110 5'	AGCCCCGGTTCCCTCCCG	2923	A ATCGT A
	CG GGAGGAAT	CGG GCT		

	GC CCTCCTTG GCC CGA C _____ C	
GAM111 LOC123242 5'	CAGCTCCACCATAATTCTCC 3029 GGAGGAATAT GT GGAGCTG CCTCTTATA CA CCTCGAC C _	C C
GAM111 LOC146237 3'	CAGCTCTCACATTCTTC 3282 GGAGGAAT GT GGAGCTG CTTCCTTA CA TCTCGAC _____ C	ATC C
GAM111 LOC147160 5'	CAGCCCCACTCACTCCTCTC 3291 GAGGAGGA GT GG GCTG CTCTTCCT CA CC CGAC CACT_ C _	ATATC C A
GAM111 LOC149670 5'	CAGCCCCTGCCACTCCTCCTC 3138 GAGGA GGA GT GG GCTG CTCCT CCT CG CC CGAC T CAC_ T _	_ ATATC C A
GAM111 LOC155072 3'	CAGCTCCGACCACACCATCCTC 3374 GAGGA GG GTCGGAGCTG CTCCT CC CAGCCTCGAC A ACAC_	_ AATATC
GAM111 LOC158828 3'	CAGCCCCGGAGCCATTCTCC 3227 GGAGGAAT TCGG GCTG CCTCCTTA GGCC CGAC CCGA C	ATCG A
GAM111 LOC202868 3'	CAGCTCCGACCACACCATCCTC 3487 GAGGA GG GTCGGAGCTG CTCCT CC CAGCCTCGAC A ACAC_	_ AATATC
GAM111 LOC253001 5'	CAGCTCCACCATAATTCTCC 3697 GGAGGAATAT GT GGAGCTG CCTCTTATA CA CCTCGAC C _	C C
GAM111 LOC253841 5'	CAGCCCCAGCTGCTCCTCTC 3704 GAGGAGGA TA GT GG GCTG CTCCTCCT GT CG CC CGAC C __ A C	A TC C A
GAM111 LOC51177 5'	CAGCTCCGACGCCCTCCCG 1676 A AATAT CG GGAGG CGTCGGAGCTG 	

GC CCTCC GCAGCCTCGAC
— C
GAM111 LOC91408 3' CAGCTTTGGTAATATTCTTCC 2735 CG —
TC GAGGAGGAATAT TCGGA GCTG
||||||| ||||| |||||
CTCCTTCTTATA GGTTC CGAC
AT T
GAM112 KIAA1265 3' CCATATGAATTTGGTATA 2896 A__
TATACCAGAATT ATGG
||||||| |||||
ATATGGTTTAA TACC
GTA
GAM112 MGC2731 3' CCACTGATTGGCTGGTGTA 2050 __ A
TATACCAG AATTA TGG
||||||| |||||
ATGTGGTC TTAGT ACC
GG C
GAM113 C3AR1 3' ACTGTCAAAGAACATCAATCCA 1081 A GA__
TG ATTGATTCTT GGT
|| ||||| |||
AC TAACTAACAGAA TCA
C ACTG
GAM113 GABARAPL3 3' TATACCTCTCACTCATTCA 2260 T TTCTT
TGAAT GA GAGGTATA
||||| || |||||
ACTTA CT CTCCATAT
— CACT_—
GAM113 GOLGA2LY 5' CTCAGTGAAAACATCAATTCA 2684 — —
TGAATTGAT TC TTGAG
||||||| || |||||
ACTTAACTA AG GACTC
CAAA T
GAM113 PEG10 3' TACCTCAAGTATCAATTCA 1607 T
TGAATTGAT CTTGAGGTA
||||||| |||||
ACTTAACTA GAACTCCAT
T
GAM113 RNF13 3' TGTAACTCAAGCATCAATTCA 1376 T G
TGAATTGAT CTTGAG TATA
||||||| |||||
ACTTAACTA GAACTC ATGT
C A
GAM113 LOC143692 5' GCCTATCAGAACATCAATTCA 3060 CT __
TGAATTGATT TGA GGT
||||||| ||| |||||
ACTTAACTGA ACT CCG
AG AT
GAM113 LOC151201 5' GTTTATACCATTGGATTCAATT 3342 T TGA
CA TGAATTGA TCT GGTATAAAC
||||||| |||||

ACTTAACT AGG CCATATTG
T TTA

GAM113 LOC257431 5' CTCAGTGAAAACATCAATTCA 3231 — —
TGAATTGAT TC TTGAG
|||||| || |||||
ACTTAACTA AG GACTC
CAAA T

GAM113 LOC93259 5' ATACCCAGGTCAATT 2927 TT A
GAATTGA CTTG GGTAT
||||| |||||
CTTAACT GGAC CCATA

GAM114 SAMHD1 3' CATCAAATCCTGCCCGT 2594 AA T
ACGGG CAGGGTTG TG
|||| |||||||||
TGCCC GTCCTAAC AC
CC T

GAM114 LOC150864 5' AATCAACAGGCTCCCG 3150 ACAGG
CGGGA GTTGTTGATT
|||| |||||||||
GCCCT CGGACAAC TAA

GAM114 LOC257358 3' AATCAACACCCTTGCCCC 3731 AA TT
GGG CAGGG TGTTGATT
||| ||||| |||||
CCC GTTCC ACAACTAA
C_ C_

GAM114 LOC90288 3' AATCTTGCTCTGTTCCC 2621 TTGTT
GGGAACAGGGT GATT
||||||| |||||
CCCTTGTCG CTAA
TT__

GAM115 GAD1 3' GGCTTAGTAATAGATCACGGCA 777 A A A T
TGC CGT ATCTATTAT GA GCC
||| ||||| |||||
ACG GCA TAGATAATG TT CGG
— C A —

GAM115 KLHL2 3' TATAATAAATTATGTGCA 1371 C
TGCACGTAAT TATTATA
|||||||
ACGTGTATTA ATAATAT
A

GAM115 KIAA0276 3' CACTGTAATGTTACATGCA 2904 C CT A
TGCA GTAAT ATTATAG TG
||| ||||| |||||
ACGT CATTG TAATGTC AC
A — —

GAM115 LOC130814 3' GGCACCTATAATAATGAC 3012 A C A
GT AT TATTATAG TGCC
||| ||||| |||||

CA TA ATAATATC ACGG
G A C

GAM116 TGFBR2 3' AATGCCTGTATATAAATATGAA 1002 TAG C_
TTCATATTAT ATAC GCATT
||||||| |||| |||||
AAGTATAAATA TATG CGTAA
— TC

GAM116 KIAA1223 3' AATGAGTCTATTAATAAATATG 2908 ATACCG
AA TTCATATTATTAG CATT
||||||| |||||
AAGTATAAATAATT GTAA
ATCTGA

GAM116 PRO2859 5' CGGTATGAAATATGAA 1840 TAG
TTCATATTAT ATACCG
||||||| |||||
AAGTATAAATG TATGGC

GAM116 PSIP2 3' ATGCTTATACAATAAATATGAA 2324 AG CC
TTCATATTATT ATA GCAT
||||||| |||||
AAGTATAAATAA TAT CGTA
CA T_

GAM116 LOC152185 3' AATGCAAATCAAATAAATATGA 2497 A ACC
TCATATTATT GAT GCATT
||||||| |||||
AGTATAAATAA CTA CGTAA
A AA_

GAM116 LOC89953 3' ATGCTACTCTAATAAATAT 2437 TACC
ATATTATTAGA GCAT
||||||| |||||
TATAAATAATCT CGTA
CAT_

GAM116 LOC90509 5' GTGTTAATAAATATGAA 2649
TTCATATTATTAGATAC
|||||||
AAGTATAAATAATTGTG

GAM117 BPNT1 3' CAATGAGAGATTATA 2702 TCC
TATGA TCTCTCATTG
||||| |||||
ATATT AGAGAGTAAC

GAM117 FLJ21709 3' CAATGAGGGTGTATG 2235 CCT
TATGAT CTCTCATTG
||||| |||||
GTACTG GGGAGTAAC
T_

GAM117 MGC13007 5' CAATGAGAAAGGAGAGTA 2246 GA C
TAT TCCT TCTCATTG
||| |||||

ATG AGGA AGAGTAAC
AG A
GAM117 MGC14407 5' CAATGGGGGAGACATA 2294 ATC
TATG CTCTCTCATGG
|||| |||||
ATAC GAGGGGGTAAC
A_____
GAM117 LOC151201 3' CAATGGGGCGGTACATA 3341 T T T
TATGA CC CTC CATTG
|||| |||||
ATACT GG GGG GTAAC
- C -
GAM117 LOC197131 3' CAATGAGTGGATCATG 3419 TCT
TATGATCC CTCATTG
|||||||
GTACTAGG GAGTAAC
T_____
GAM117 LOC219942 3' CAACAAGCGGGGGTCATA 3598 _ CA
TATGATCCTCT CT TTG
||||||| |||||
ATACTGGGGGG GA AAC
C AC
GAM118 B3GAT1 5' CAGTTGGGCCGGACTCTCC 1855 ACTA
GGAGAGTT GGCCCAACTG
|||||||
CCTCTCAG CCGGGTTGAC
G_____
GAM118 B3GAT1 5' CAGTTGGGCCGGACTCTCC 2362 ACTA
GGAGAGTT GGCCCAACTG
|||||||
CCTCTCAG CCGGGTTGAC
G_____
GAM118 GALNT7 3' AGTTGAGAAACTCTCCTG 2365 A AGGCC
TAGGAGAGTT CT CAACT
||||||| |||||
GTCCTCTCAA GA GTTGA
A _____
GAM118 ZNF76 3' CAGCTGGCGCCCACTCTCCT 1019 TACTAG A
AGGAGAGT GCCCA CTG
||||||| |||||
TCCTCTCA CGGGT GAC
CCCG_ C
GAM118 DKFZp434M0331 5' CAGTTGAGCCTCATGGCTCTCC 1727 CT C
GGAGAGTTA AGGC CAACTG
||||||| |||||
CCTCTCGGT TCCG GTTGAC
AC A
GAM118 FLJ20666 5' CAGTCACCTGATGACTCTCC 1763 C CCCA
GGAGAGTTA TAGG ACTG
||||||| |||||

CCTCTCAGT GTCC TGAC
 A AC_

GAM118 FYCO1 3' CAGTCAGGCCAGGTTCTTCC 2064 G TTA A_ CA
 GGA AG CT GGCC ACTG
 ||| || |||||
 CCT TC GA CCGG TGAC
 _ TTG CC AC

GAM118 ILF3 5' CAGTTGAACCCAGCAGCCGCC 1121 AGA A A CC
 GG GTT CT GG CAACTG
 ||| |||||
 CC CGA GA CC GTTGAC
 GCC C C AA

GAM118 KIAA0193 3' CAGTTGGGCCTAATCCTGCCTC 1544 A TAC_

 GAG GT TAGGCCAACTG
 ||| || |||||||
 CTC CG ATCCGGGTTGAC
 _ TCCTA

GAM118 KIAA1163 3' CAGCTGGACCTAGCTGATTCTC 3121 _ C A
 GAGAGTTA CTAGG CCA CTG
 ||||| ||||| |||
 CTCTTAGT GATCC GGT GAC
 C A C

GAM118 KIAA1247 3' GGCTCCCTAGCAACTCCCTA 2609 A A C_

 TAGG GAGTT CTAGG CC
 ||||| ||||| ||
 ATCC CTCAA GATCC GG
 _ C CTC

GAM118 KIAA1870 5' CAGCTGGGCCTGCAGTTCCCTCC 2293 A TT _ A
 C GG GAG ACT AGGCCCA CTG
 ||| ||||| |||||
 CC CTC TGA TCCGGGT GAC
 _ CT CG C

GAM118 LOC146517 3' CAGTTAACCTAGATCCCTCCC 3095 A TTA_ CCC
 T AGG GAG CTAGG AACTG
 ||||| |||||
 TCC CTC GATCC TTGAC
 _ CCTA AAA

GAM118 LOC162083 5' CAGCTGGGCTCCATAGACCCTC 3242 A ACTA_ A
 C GGAG GTT GGCCCA CTG
 ||||| |||||
 CCTC CAG TCGGGT GAC
 C ATACC C

GAM118 LOC220477 5' CAGTTGGGCCTGTACCATCCC 3041 A GT_ TA
 GG GA TAC GGCCCAACTG
 ||| |||||
 CC CT ATG CCGGGTTGAC
 _ ACC TC

GAM118 LOC222237 3' AGCTGGGCCTAGTCAACT 3650 _ A
 AGTT ACTAGGCCA CT
 ||||| ||||| ||

TCAA TGATCCGGGT GA
C C
GAM118 LOC255096 5' TGGGCCAGCAGATTCTCC 3745 A_ A
GGAGAGTT CT GGCCCA
|||||| |||||||
CCTCTTAG GA CCGGGT
AC _
GAM118 LOC92340 3' CAGCCAGGCCCTCTCCTG 2837 TTACTA CAA
TAGGAGAG GGCC CTG
|||||| | |||||
GTCCTCTT CCGG GAC
CTC__ ACC
GAM119 ARG1 3' TAACTTGGCAAAAGACTTA 700 —
TAAGTCTT CCAAGTTG
|||||| | |||||
ATTCAGAA GGTTCAAT
AAC
GAM119 BACH2 3' TGATGCTGCAGTGGAAAAC 1964 C AGT
GT TTCCA TGGCATCA
|| |||| | |||||
CA AAGGT GTCGTAGT
A GAC
GAM119 CDR1 3' TGATTTACTGGAAGACTTG 1083 A TGGC
TAAGTCTTCCA GT ATCA
||||||| || | |||
GTTCAGAAGGT CA TAGT
— TT__
GAM119 CNTN3 3' GCATTATTTGGAAGACTTA 2758 TG__
TAAGTCTTCCAAGT GC
||||||| |||
ATTCAGAAGGTTA CG
TTA
GAM119 ESRRG 3' GATGTCGAAGAAACTTA 2748 C CAAG
TAAGT TTC TTGGCATC
|| |||| | |||||
ATTCA AAG AGCTGTAG
— A__
GAM119 FSTL1 3' GATGCCAGAGAGAACTTA 1357 CT CAAG
TAAGT TC TTGGCATC
|| ||| || |||||
ATTCA AG GACCGTAG
AG A__
GAM119 GABRB2 3' TGATGTAGGACTTGGAAAAC 1967 C G__
GT TTCCAAGTT GCATCA
|| ||||| |||||
CA AAGGTTCAAG TGTAGT
A GA
GAM119 GABRB2 3' TGATGTAGGACTTGGAAAAC 776 C G__
GT TTCCAAGTT GCATCA
|| ||||| |||||

		CA AAGGTTCA G TGTAGT		
		A GA		
GAM119 MCP	3'	ATGCCAACTCTTAAGATT	925	CCA
		AGTCTT AGTTGGCAT		
		TTAGAA TCAACCGTA		
		TTC		
GAM119 NRIP1	3'	ATGCCAACAAAGCTTA	2548	T CCAA
		TAAG CTT GTTGGCAT		
		ATTC GAA CAACCGTA		
		— A —		
GAM119 OPHN1	3'	GATGCAAACATTGGAAGATT	936	_ G
		AGTCTTCCAA GTT GCATC		
		TTAGAAGGTT CAA CGTAG		
		A A		
GAM119 PTPRO	3'	GAAGCACCGGGAAGACTTA	964	AA TG A
		TAAGTCTTCC GT GC TC		
		ATTCAGAAGG CA CG AG		
		GC _ A		
GAM119 PTPRO	3'	GAAGCACCGGGAAGACTTA	2155	AA TG A
		TAAGTCTTCC GT GC TC		
		ATTCAGAAGG CA CG AG		
		GC _ A		
GAM119 PTPRO	3'	GAAGCACCGGGAAGACTTA	2156	AA TG A
		TAAGTCTTCC GT GC TC		
		ATTCAGAAGG CA CG AG		
		GC _ A		
GAM119 PTPRO	3'	GAAGCACCGGGAAGACTTA	2157	AA TG A
		TAAGTCTTCC GT GC TC		
		ATTCAGAAGG CA CG AG		
		GC _ A		
GAM119 PTPRO	3'	GAAGCACCGGGAAGACTTA	2158	AA TG A
		TAAGTCTTCC GT GC TC		
		ATTCAGAAGG CA CG AG		
		GC _ A		
GAM119 RAD50	5'	TGATGTCAATGGAGAAGACTTA	2419	CT AG
		TAAGT TCCA TTGGCATCA		
		ATTCA AGGT AACTGTAGT		
		AG —		
GAM119 RORB	3'	GTGTTCATGAAGACTTA	1338	CAA TG
		TAAGTCTTC GT GCAT		

		ATTCAGAAG	TA	TGTG		
		__	CT			
GAM119	SORD	3' TAACTTCATGAAGACTTA	990		C__	
		TAAGTCTTC	AAGTTG			
		ATTCAGAAG	TTCAAT			
		TAC				
GAM119	SULT1C1	3' ATGCCACCCTTTGGAAGC	797	T	T__	
		G CTTCCAAG	TGGCAT			
		C GAAGGTTT	ACCGTA			
		__	TCCC			
GAM119	WRB	3' GTTCTTTGAAGACTTA	1137	C	TT	
		TAAGTCTTC	AAG GGC			
		ATTCAGAAG	TTC TTG			
		T __				
GAM119	ANKRD5	5' TGATCGCCCCGGAAGACT	1978	AAGTT	_	
		AGTCTTCC	GGC ATCA			
		TCAGAAGG	CCG TAGT			
		C__	C			
GAM119	C7orf10	3' TGATACCACTAAGAAGAAGATT	2084	CA__	T C	
		TAAGTCTTC	AGT GG ATCA			
		ATTTAGAAG	TCA CC TAGT			
		AAGAA _	A			
GAM119	DKFZP727M111	5' TGATGCCAACTCAGAC	1633	TCCA		
		GTCT	AGTTGGCATCA			
		CAGA	TCAACCGTAGT			
		C__				
GAM119	FLJ13262	3' TGATGCCAACTCACCTT	2113	CTTCCA_		
		AAGT	AGTTGGCATCA			
		TTCA	TCAACCGTAGT			
		CGCCCCC				
GAM119	FLJ20425	5' TGACGGCTTTGACAAGACTT	1755	C_	TT A	
		A	TAAGTCTT CAAG GGC TCA			
		ATTTCAGAA	TTT TCG AGT			
		CA T_ GC				
GAM119	KIAA0953	3' TGGAAACTAGAAGACTTA	2763	CA	GG	
		TAAGTCTTC	AGTT CA			
		ATTCAGAAG	TCAA GT			
		A_ AG				
GAM119	KIAA1450	3' TGATGCTTCATTGAAGACTTA	2732	C	GTT	
		TAAGTCTTC	AA GGCATCA			

ATTCAGAAG TT TCGTAGT
_ ACT
GAM119 NEUROD6 5' TGAAAAGATTGGAAAGAC 2000 GGCA
GTCTTCCAAGTT TCA
||||||| |||
CAGAAGGTTAG AGT
AAA_
GAM119 PRO0255 3' GTTTCTTGAAAGACTTA 1475 C TT
TAAGTCTT CAAG GGC
||||||| |||||
ATTCAGAA GTTC TTG
A T_
GAM119 UBE3B 5' TGATGCCGAGGAAGACT 3069 _ AAG
AGTCTT CC TTGGCATCA
||||| || |||||
TCAGAA GG AGCCGTAGT
A __
GAM119 ZIM2 3' ATGTCAGTAGGAGACTTA 1623 CAAG
TAAGTCTTC TTGGCAT
||||||| |||||
ATTCAGAGG GACTGTA
AT__
GAM119 LOC112868 3' TGTAGACATGAAGACTTA 2962 CAA G
TAAGTCTTC GTT GCA
||||||| |||||
ATTCAGAAG CAG TGT
TA_ A
GAM119 LOC116166 3' TAACTTCATGAAGACTTA 2545 C__
TAAGTCTTC AAGTTG
||||||| |||||
ATTCAGAAG TTCAAT
TAC
GAM119 LOC123855 3' TGAGCACCGCTTGGAAATAC 3033 C TG A
GT TTCCAAGT GC TCA
|| ||||| || |||
CA AAGGTTCG CG AGT
T CA __
GAM119 LOC146818 5' GATGCCGAAGAAGGCT 3100 CAAG
AGTCTTC TTGGCATC
||||||| |||||
TCGGAAG AGCCGTAG
A__
GAM119 LOC152190 5' TGACAACCTGGAAGACTT 2864 A G
AAGTCTTCCA GTTG CA
||||||| |||||
TTCAGAAGGT CAAC GT
_ A
GAM119 LOC153077 3' TGATACCAACCTGAGATAACTT 3366 CT _ C
AAGT TC CAAGTTGG ATCA
|||| || ||||| ||||

TTCA AG GTTCAACC TAGT
AT A A
GAM119 LOC158382 3' TGATAGCTGATAAGACTTA 3388 CCAA TG _
TAAGTCTT GT GC ATCA
|||||| || |||||
ATTTCAGAA TA CG TAGT
____ GT A

GAM119 LOC158476 3' TGATCTCGTCAGGAGACTTA 3391 CAAGT ____
TAAGTCTTC TGGC ATCA
||||||| |||||
ATTTCAGAGG ACTG TAGT
____ CTC

GAM119 LOC164397 5' ATGTCTTCTGAAGACTTA 3249 CA TT
TAAGTCTTC AG GGCAT
||||||| || |||||
ATTTCAGAAG TC CTGTA
____ TT

GAM119 LOC196510 3' TGATCTGGCTTGGCAGACTTA 3416 T TG C
TAAGTCT CCAAGT G ATCA
||||||| |||||
ATTTCAGA GGTCG C TAGT
C GT _

GAM119 LOC200220 3' TGATCTGGCTTGGCAGACTTA 3445 T TG C
TAAGTCT CCAAGT G ATCA
||||||| |||||
ATTTCAGA GGTCG C TAGT
C GT _

GAM119 LOC201477 5' CAACTGAGGTCTGTAAGACTTA 3472 _____ A_
TAAGTCTT CC AGTTG
||||||| || |||||
ATTTCAGAA GG TCAAC
TGTCT AG

GAM119 LOC201696 5' TGATGCCATTGAAGACTT 2650 CAAGT
AAGTCTTC TGGCATCA
||||||| |||||
TTTCAGAAG ACCGTAGT
TT____

GAM119 LOC220469 3' GATGGCCAGAACGATTAA 3049 CAAGT _
TAAGTCTTC TGGC ATC
||||||| |||||
ATTTAGAAC ACCG TAG
____ G

GAM119 LOC221272 3' TGACACCAACTTTGAGATTAA 3615 CC CA
TAAGTCTT AAGTTGG TCA
||||||| |||||
ATTTAGAG TTCAACC AGT
TT AC

GAM119 LOC222166 3' TGAGGGCCCCAGAGGGACTTA 3636 CAAGTT A
TAAGTCTTC GGC TCA
||||||| |||||

ATTCAGGAG CCG AGT
ACC__ G
GAM119 LOC253220 5' TGAGCAGCTCCTGGAAGAC 3706 — G A
GTCTTCCA AGTTG C TCA
|||||| |||||
CAGAAGGT TCGAC G AGT
CC __
GAM119 LOC51275 5' TGATGGAAGTGGAAAGATT 1694 AG GG
AGTCTTCCA TT CATCA
|||||| || ||||
TTAGAAGGT AG GTAGT
GA __
GAM119 LOC54505 5' GATTTCTGGAAGACTTA 2800 AGTT C
TAAGTCTTCCA GG ATC
|||||| || ||||
ATTCAGAAGGT CT TAG
__ T
GAM119 LOC90844 3' TGATTGCATTGGAAGATCA 2682 A GTTG __
A GTCTTCCAA GCA TCA
| ||||| || ||||
A TAGAAGGTT CGT AGT
C A__ T
GAM119 LOC92697 5' GATGCCACCCAGACTTA 2882 TCCAA T
TAAGTCT GT GGCATC
|||||| || |||||
ATTCAGA CA CCGTAG
C__ __
GAM120 KIF5C 3' ACAAATTCTATTGAAGTATTT 1122 AC
GAATAT TCAATAGAATTGT
||||| |||||||||
TTTATG AGTTATCTTAAACA
A__
GAM120 DKFZP564M182 3' ACAATTGTCAAGTATATTCTG 3097 CA AAT
TAGAATATACT ATAG TTGT
|||||| || |||||
GTCTTATATGA TGTT AACAA
AC __
GAM120 KIAA0852 5' ACAAATTCTGTAAGTATCCTCTA 1594 AT CAATA
TAGA ATACT GAATTTGT
||| |||| |||||
ATCT TATGA CTTAAACA
CC ATG__
GAM120 PRO0097 5' CTATTGAGTAGTATTCTA 1472 —
TAGAATAT ACTCAATAG
|||||| |||||||
ATCTTATG TGAGTTATC
A
GAM120 LOC222161 5' TTGTATTAGTATATTCTA 3578 C G
TAGAATATACT AATA AA
|||||| || ||||

ATCTTATATGA TTAT TT
_ G
GAM120 LOC255811 5' ACAAAAGATGGCTATCGGTATAT 3662 CA AA
TCTA TAGAATATACT ATAG TTTGT
||||||| |||||
ATCTTATATGG TATC AAACA
C_ GGTAG

GAM121 DPYD 3' TATTAAGTAAAATCCCCTTC 2569 TAT
GA GGGATTTACTTAATA
|| |||||||||
CT CCCTAAAATGAATTAT
TC_

GAM121 KIAA1240 3' TATTAATGTTAAATCCCACATCT 2761 T T_ _
C GA ATGGGATTT AC TTAATA
|| ||||| || |||||
CT TACCCTAAA TG AATTAT
C TT T

GAM121 KIAA1843 3' TATTACAGAAAATCCCATATTC 2624 A A _
A A GATATGGGATTTT CT TAATA
| ||||||||| || |||||
A TTATACCCTAAAA GA ATTAT
C _ C

GAM121 LOC122786 3' ATTAAGTAATCCACCATTCTT 2995 T GATT
A TAAGA ATGG TTACTTAAT
||||||| |||||||||
ATTCT TACC AATGAATTA
T ACCT

GAM122 FGF12 3' AACTAAACTGTATTGTTATT 1935 TAG
AATAACAGT TAGTTAGTT
||||||| |||||||||
TTATTGTTA GTCAAATCAA
T_

GAM122 FGG 3' AACTGCTAACCTCTATTGA 1965 AC
TCAATA AGTTAGTAGTT
||||||| |||||||||
AGTTAT TCAATCGTCAA
CT

GAM122 NEBL 3' AACTAAACTGTCAACTGTTG 1295 AG T
TAACAGTT TAGTT AGTT
||||||| |||||
GTTGTCAA GTCAA TCAA
CT _

GAM122 RPE 3' AACTAAATATTATAACTGTTC 2623 AT GTA_ _
TGA TCA AACAGTTA GTTTAGTT
||| ||||| |||||||
AGT TTGTCAAT TAAATCAA
C_ ATTTA

GAM122 TRHDE 3' AACTAAATTTCTCAACTGTTAT 1446 A _ T
GA TCA TAACAGTT AG AGTTAGTT
||| ||||| || |||||||||

AGT ATTGTCAA TC TTAAATCAA
C T
GAM122 BCMP1 3' AACTAACATTCTCTGTTCTGA 2197 AT TT A
TCA AACAG AGT GTTTAGTT
||| ||||| |||||||
AGT TTGTC TTA CAAATCAA
C_ TC _
GAM122 DKFZP434A0225 3' AACTAACCTAATGCTGCTGTT 3624 T _____
A TAACAGT AGTA GTTTAGTT
||||||| |||||
ATTGTCG TCGT CAAATCAA
_ AATC
GAM122 FLJ12899 3' ACTAAAATACTGTTATTGG 2069 TAGTAG
TCAATAACAGT TTTAGT
||||||| |||||
GGTTATTGTCA AAATCA
TA _____
GAM122 PREI3 3' AACTAAACTACTAAGTTA 2747 AG
TAAC TTAGTAGTTTTAGTT
||| ||||| |||||
ATTG AATCATCAAATCAA

GAM122 PSIP2 3' AATTAAGCAACTGACATTGA 2323 AACAA A
TCAAT GTTAGT GTTTAGTT
||| ||||| |||||
AGTTA CAGTCA CGAATTAA
_ A
GAM122 LOC220963 3' AACTAAACTACTTGTTGTGTTG 3526 A TT
A TCAATA CAG AGTAGTTTTAGTT
||||||| |||||
AGTTGT GTT TCATCAAATCAA
_ GT
GAM123 LOC143098 5' CGATGATCTGGCCGAAGAGCTT 3051 A_ _ TT
AAGCT TCG TCA GATCATCG
||||||| |||||
TTCGA AGC GGT CTAGTAGC
GA C _
GAM124 CALB2 3' AAAGAAAGAGTTACAGACAATA 853 ATTTA_
A TTATTGTCTG TTTCTTT
||||||| |||||
AATAACAGAC GAAGAAA
ATTTGA
GAM124 TRAF5 3' AAAGAAATAGGTTCACAACAGG 1133 A CT
A TCTT TTGT GATTATTCTTT
||||||| |||||
AGGA AACAA TTGGATAAGAAA
C C_
GAM124 C15orf5 3' AAAGAAAGGCACCATCAGACAA 2173 A TTA_____
AAGA TCTT TTGTCTGAT TTTCTTT
||||||| |||||

AGAA AACAGACTA AAAGAAA
— CCACGG

GAM124 DKFZp761K1423 3' AAAGAAATAAACCAACAA 1826 CT
TTGT GATTATTTCTTT
|||||
AACA CTAATAAAGAAA
AC

GAM124 FLJ12892 5' AAAGAAACATCATCTTCAGATA 2801 TTTA_____
ATAAGA CTTATTGTCTGA TTTCTTT
||||||| |||||
GAATAATAGACT AAAGAAA
TCTACTAC

GAM124 MGC15437 3' AAAGAAATAATGACAAT 2292 TG
ATTGTC ATTTATTTCTTT
||||| |||||
TAACAG TAAATAAAGAAA

GAM124 MGC27016 3' AAAGAAATGATGAGACAAAAAG 2503 A G T
A TCTT TTGTC ATT ATTTCTTT
||||| |||||
AGAA AACAGA TAG TAAAGAAA
A G _

GAM124 LOC154089 3' AAGAAATATTACAATAAGG 3187 CTGATT
TCTTATTGT TATTCTT
||||| |||||
GGAATAACA ATAAAGAA
TT____

GAM124 LOC159053 3' AAAGAAATAAACCTTTGGACAG 3395 TG ____
TTGTC A TTTATTTCTTT
||||| | |||||
GACAG T AAATAAAGAAA
GT TTC

GAM125 XPR1 3' CTGAGCATATCTCTCGTAACA 1152 AAATCA A
TGTTACGA ATAT TTCAG
||||| |||||
ACAATGCT TATA GAGTC
CTC__ C

GAM126 DFNA5 3' TGCACGTTAAAGTTGAC 1109 GC A
GTCAAT TTTAACGT CA
||||| |||||
CAGTTG AAATTGCA GT
A_ C

GAM126 LRAT 3' TGTCTTTAACGCATTACTAA 2557 C CGT
TTAGT AATGCTTAA ACA
||||| |||||
AATCA TTACGAAATT TGT
T TTC

GAM126 PKHD1 3' TACACTATAGCACTTTGACTAA 2449 __ T AC
TTAGTCAA TGCT TA GTA
||||| |||||

AATCAGTT ACGA AT CAT
TC T CA
GAM126 HSPC055 5' CGTTGAAGCACAACAA 1480 CAA
TTAGT TGCTTTAACG
|||| |||||
AATCA ACGAAGTTGC
AC_

GAM126 PRO0386 5' TACTTGAGAACATTGACTA 1845 C__ C
TAGTCAATG TTTAA GTA
|||||| |||||
ATCAGTTAC GAGTT CAT
AAA T
GAM126 LOC121441 3' TGTTTCTAAGCCATTGACTAA 2992 _ TAACGT
TTAGTCAATG CTT ACA
||||||| |||
AATCAGTTAC GAA TGT
C TCTT__

GAM127 ADAMTS5 3' ATTGGAAACTGAAATTCAA 1351 CA G TG
TC AATT CAGTTTC GT
|| |||| |||||
AG TTAA GTCAAAG TA
AC A GT

GAM127 BHLHB3 3' GATACCAGATAATCACAA 2161 CA _
TTG GTT TCTGGTATC
||| |||||
AAC TAA AGACCATAG
AC T

GAM127 CCR2 3' GCTGAAAATGCAACTTG 767 A CT
CAA TTGCAGTTT GGT
||| ||||| |||
GTT AACGTCAA TCG
C AG

GAM127 DCN 3' ACCTAACTGCAATGTGGA 868 A TCT
TCCA ATTGCAGTT GGT
||| ||||| |||
AGGT TAACGTCAA CCA
G T__

GAM127 DCN 3' ACCTAACTGCAATGTGGA 2421 A TCT
TCCA ATTGCAGTT GGT
||| ||||| |||
AGGT TAACGTCAA CCA
G T__

GAM127 DCN 3' ACCTAACTGCAATGTGGA 2422 A TCT
TCCA ATTGCAGTT GGT
||| ||||| |||
AGGT TAACGTCAA CCA
G T__

GAM127 DCN 3' ACCTAACTGCAATGTGGA 2423 A TCT
TCCA ATTGCAGTT GGT
||| ||||| |||

AGGT TAACGTCAA CCA
G T
GAM127 DCN 3' ACCTAACTGCAATGTGGA 2424 A TCT
TCCA ATTGCAGTT GGT
||| ||||| |||
AGGT TAACGTCAA CCA
G T
GAM127 DCN 3' ACCTAACTGCAATGTGGA 2425 A TCT
TCCA ATTGCAGTT GGT
||| ||||| |||
AGGT TAACGTCAA CCA
G T
GAM127 EXTL1 5' GGACACGGCCCTGCATTCTGGA 1116 AAT TTT GTA
TCCA TGCAG CTG TCC
||| |||| ||| |||
AGGT ACGTC GGC AGG
CTT CC_ AC_
GAM127 FASN 3' GGACACCAGAGCTGCCGACTTG 1088 A _ T A
GA TCCAA TTG CAGTT CTGGT TCC
||| |||| |||| |||
AGGTT AGC GTCGA GACCA AGG
C C _ C
GAM127 INHBB 3' GTCAGAAAATGCCATTG 905 T
CAAAT GCAGTTCTGGT
||| |||||
GTTA CGTCAAAGACTG
C
GAM127 NEDD4 3' GATGGAAAATGAAATTGGA 2875 G CTGG
TCCAAATT CAGTTT TATC
|||||| |||| |||
AGGTTAA GTCAAA GTAG
A AG_
GAM127 NFYA 3' ACCAAAATGCAATCAGGA 1955 AA C
TCC ATTGCAGTT TGTT
||| ||||| |||
AGG TAACGTCAA ACCA
AC _
GAM127 NFYA 3' ACCAAAATGCAATCAGGA 933 AA C
TCC ATTGCAGTT TGTT
||| ||||| |||
AGG TAACGTCAA ACCA
AC _
GAM127 RAD17 5' ACCTGCAAATGTAATTG 967 TCT
CAAATTGCAGTT GGT
||||||| |||
GTTAATGTCAA CCA
CGT
GAM127 RAD17 5' ACCTGCAAATGTAATTG 2410 TCT
CAAATTGCAGTT GGT
||||||| |||

			GTTTAATGTCAA	CCA			
			CGT				
GAM127	RAD17	5'	ACCTGCAACTGTAATTG	2411	TCT		
			CAAATTGCAGTT	GGT			
			GTTTAATGTCAA	CCA			
			CGT				
GAM127	RAD17	5'	ACCTGCAACTGTAATTG	2412	TCT		
			CAAATTGCAGTT	GGT			
			GTTTAATGTCAA	CCA			
			CGT				
GAM127	RAD17	5'	ACCTGCAACTGTAATTG	2413	TCT		
			CAAATTGCAGTT	GGT			
			GTTTAATGTCAA	CCA			
			CGT				
GAM127	RAD17	5'	ACCTGCAACTGTAATTG	2414	TCT		
			CAAATTGCAGTT	GGT			
			GTTTAATGTCAA	CCA			
			CGT				
GAM127	ZNF146	3'	GGACACCAGAAAATTGTA	1358	—	A	
			TGCAG	TTTCTGGT TCC			
			ATGTT	AAAGACCA AGG			
			TA	C			
GAM127	CHST3	3'	GGACACCAGAAGACGATT CAGA	1096	CA	CAG	A
			TC	AATTG	TTTCTGGT TCC		
			AG	TTAGC	GAAGACCA AGG		
			AC	A	C		
GAM127	DKFZp762E1511	3'	ATGCTACTGAATTGGAA	2531	G	TTCT	
			TCCAAATT	CAGT	GGTAT		
			AGGTTTAA	GTCA	TCGTA		
GAM127	EIF5	5'	GATACCAAAAGTTGCAAT	878	—	C	
			ATTGCAG	TTT	TGGTATC		
			TAACGTT	AAA ACCATAG			
			G	A			
GAM127	LATS1	3'	GGATACCAACAGCCAATT	2563	CA	TC	
			AATTG	GTT	TGGTATCC		
			TTAAC	CGA	ACCATAGG		
			—	C			
GAM127	MGC27277	3'	CCAAAATTGCAATT CAGA	2505	CA	C	
			TC	AATTGCAGTT	TGG		

AG TTAACGTTAAA ACC
AC _
GAM127 POLD3 3' ACTAAA ACTGAATTTG 3538 G C
CAAATT CAGTTT TGGT
|||||| |||||
GTTTAA GTCAAA ATCA

GAM127 TSLRP 5' GATA CATCACTGAAATTGGA 1435 G TTCTG
TCCAA ATT CAGT GTATC
||||||| |||||
AGGTTTAA GTCA CATAG
A CTA _

GAM127 LOC147463 3' ATACCAGTGGCAAATTGGA 3108 _ AGTTT
TCCAA ATT GC CTGGTAT
|||||| || |||||
AGGTTTAA CG GACCATA
A GT _

GAM127 LOC161734 3' GGATACCGTTTCAACTTGGGA 3400 A C TTTC
TCCAA TTG AG TGGTATCC
|||||| || |||||
AGGTT AAC TT GCCATAGG
C _ TT _

GAM127 LOC164173 3' GATATTGA ACTGCATCTGGGA 3235 AAT CT
TCCA TGCAGTTT GGTATC
||| ||||||| |||||
AGGT ACGTCAAG TTATAG
CT_ _

GAM127 LOC199675 3' GCCAAAGGCCACAACCTTGGGA 3429 A CA C
TCCAA TTG GTTT TGGT
|||||| |||||
AGGTT AAC CGAA ACCG
C AC _

GAM127 LOC200150 5' GCCAACTGCAGTTG 3439 TTC
CAAATTGCAGT TGGT
||||||||| ||||
GTTTGACGTCA ACCG

GAM127 LOC51185 3' ATACCAGAAACATCTACTTGGG 1679 ATTGCA
TCCAA GTTTCTGGTAT
||| |||||||
GGGTT CAAAGACCATA
CATCTA

GAM127 LOC90459 3' GCTGAAACTGCAATTGGA 2643 A T
TCCAA TTGCAGTTTC GGT
|||||| |||||
AGGTT AACGTCAAAG TCG

GAM127 LOC91694 5' ATACCAGAGGTCACTTCAG 2769 C __
TTG AGT TTCTGGTAT
||| || |||||

GAC TCA GAGACCATA
T CTG
GAM128 SCNN1G 3' ACCTGAACATTAGCACGTC 793 — CA
GA TGCTAATA TCAGGT
|| ||||| |||||
CT ACGATTAT AGTCCA
GC CA
GAM128 YY1 3' ACCTGATGTGTACATC 1016 CTA
GATG ATACATCAGGT
||| |||||||||
CTAC TGTGTAGTCCA
A__
GAM128 FLJ21940 3' CCTGATGTGTACCTTA 2014 A TAAT
TAAG TGC ACATCAGG
||| ||| |||||
ATTC ATG TGTAGTCC
C __
GAM128 PRO0159 5' ACCTGATGTATTGCTCT 1474 T T
AGA GC AATACATCAGGT
||| || |||||||||
TCT CG TTATGTAGTCCA
— —
GAM128 LOC200282 3' CCTGATGTAGGTCTTATT 3448 GCTAA
AATAAGAT TACATCAGG
||||||| |||||
TTATTCTG ATGTAGTCC
G__
GAM129 PCDH9 5' ACATAGGGATAGTAGCCAAC 3262 G C
GTTGGCTACTATCTT TA GT
|||||||||| |||||
CAACCGATGATAGGG AT CA
G A
GAM129 ERO1L 3' GTACAATAACAACTCA 1508 GC CTATC
TGAGTTG TA TTGTAC
||||||| ||| |||||
ACTCAAC AT AACATG
A_ __
GAM129 LOC253287 5' AAGATAATGCCAACTCA 3740 TAC
TGAGTTGGC TATCTT
||||||| |||||
ACTCAACCG ATAGAA
TA__
GAM129 LOC254268 5' ACAACTGACAGCAGCCAGCTCA 3674 A A __
TGAGTTGGCTCTTC TTGT
||||||| ||| |||||
ACTCGACCGA GA AG AACAA
C C TC
GAM130 AP1B1 3' AGCCACAGAACGCTGTGCC 802 A
GGCATGGTTCTGTG CT
|||||||||| |||

CCGTGTCAAGACAC GA
 C
 GAM130 BBS2 5' AGCCACAGAAGGCGCCG 2214 AT G A
 CGGC G TTTCTGTG CT
 |||| | ||||| ||
 GCCG C GAAGACAC GA
 _ G C
 GAM130 FRK 5' AGCCACAGAAAGCAAGCCG 890 A G A
 CGGC TG TTTCTGTG CT
 |||| || ||||| ||
 GCCG AC AAAGACAC GA
 A G C
 GAM130 HSPD1 3' TAGTCACAGAAATTCC 2560 CAT
 GG GGTTCTGTGACTA
 || |||||||||
 CC TTAAAGACACTGAT

 ——————
 GAM130 IL20RA 3' TAGGAACTAAACTATGCC 1501 CT GA
 GGCATGGTTT GT CTA
 ||||| || ||||
 CCGTATCAAA CA GAT
 T_ AG
 GAM130 LAMC3 3' TAGTCACACTCCCTGCCG 1269 T TTTC
 CGGCA GG TGTGACTA
 |||| || |||||
 GCCGT CC ACACTGAT
 C TC_
 GAM130 MEST 3' TAGTCAAGTCACCATGCTG 2872 TT G
 CGGCATGGT CT TGACTA
 ||||| || |||||
 GTCGTACCA GA ACTGAT
 CT _
 GAM130 MKI67 3' AGCCACAGGAGATGTC 927 GG A
 GGCAT TTTCTGTG CT
 |||| | ||||| ||
 CTGTA GAGGACAC GA
 C
 GAM130 MMP19 3' AGCCACAGAAACCACGTT 2011 A A
 GGC TGGTTCTGTG CT
 |||| ||||| |||||
 TTG ACCAAAGACAC GA
 C C
 GAM130 MMP19 3' AGCCACAGAAACCACGTT 2012 A A
 GGC TGGTTCTGTG CT
 |||| ||||| |||||
 TTG ACCAAAGACAC GA
 C C
 GAM130 MS4A8B 3' AGTCTAGGAAACCATGCTG 2200 GT
 CGGCATGGTTCT GACT
 ||||| ||||| |||||

			GTCGTACCAAAGG	CTGA		
			AT			
GAM130	PSMD9	3'	TAGCCACAGACATGCTG	957	GTT	A
			CGGCATG	TCTGTG CTA		
			GTCGTAC	AGACAC GAT		
			_____	C		
GAM130	SH3GL2	3'	TAGTCACAGAACTGCTG	984	TGGT	
			CGGCA	TTCTGTGACTA		
			GTCGT	AAGACACTGAT		
			_____	C		
GAM130	SPTAN1	3'	AGTCACAATCATCATGTC	994	TTC	
			GGCATGGT	TGTGACT		
			CTGTACTA	ACACTGA		
			CTA			
GAM130	SYNGR1	3'	AGTCACAGACTGTCTGCC	1146	T	TT_
			GGCA GG	TCTGTGACT		
			CCGT CC	AGACACTGA		
			_____	TGTC		
GAM130	TRIM9	3'	AGTCACAGAACTGGGGGTC	2353	AT_	T
			GGC	GGTT CTGTGACT		
			CTG	TCAA GACACTGA		
			GGGG	_		
GAM130	TRPM2	5'	AGTTGCGAACCATGTCG	1011	T	TG
			CGGCATGGTTTC	G ACT		
			GCTGTACCAAAG	C TGA		
			_____	GT		
GAM130	ATPAF1	3'	AGTCACAGAGATGAGCC	2582	ATG	
			GGC	GTTTCTGTGACT		
			CCG	TAGAGACACTGA		
			AG_			
GAM130	CENTG2	3'	TAGTCACGCGGCACGCGCCG	1587	A _	TC
			CGGC	TG GTT TGTGACTA		
			GCCG	GC CGG GCACTGAT		
			C A	C_		
GAM130	COL12A1	3'	AGCCACAGAAGATGTC	2381	GG	A
			GGCAT	TTTCTGTG CT		
			CTGTA	GAAGACAC GA		
			_____	C		
GAM130	COL12A1	3'	AGCCACAGAAGATGTC	1103	GG	A
			GGCAT	TTTCTGTG CT		

CTGTA GAAGACAC GA
 |
 C
GAM130 DKFZp547I224 3' AGCCGCTGCAAAATCATGCC 1902 CT__ A
 GGCATGGTTT GTG CT
 ||||||| |||||
 CCGTACTAAA CGC GA
 ACGT C
GAM130 DKFZp566H0824 3' AGTGAGCTGAGACCATGCC 1721 T G_
 GGCATGGTTTC GT ACT
 ||||||| |||||
 CCGTACCAGAG CG TGA
 T AG
GAM130 FLJ11726 3' AGTGAGCCGAGACCATGCC 2119 T G_
 GGCATGGTTTC GT ACT
 ||||||| |||||
 CCGTACCAGAG CG TGA
 C AG
GAM130 FLJ12668 3' TAGTCACTTGCCACCATGCC 2124 TTCT_
 GGCATGGT GTGACTA
 ||||| |||||
 CCGTACCA CACTGAT
 CCGTT
GAM130 FLJ13385 3' TAGTCACAAAGATAATACC 2098 C G C
 GG AT GTTT TGTGACTA
 || ||| |||||
 CC TA TAGA ACACTGAT
 A A A
GAM130 FLJ14936 3' TAGTCACAGACACAGGGAGCC 2243 ATG_ T
 GGC GT TCTGTGACTA
 ||| |||||||
 CCG CA AGACACTGAT
 AGGA C
GAM130 FLJ14957 3' AGTCACAGCTGGGCTTCC 2291 CAT __
 GG GGTTT CTGTGACT
 || ||||| |||||
 CC TCGGG GACACTGA
 T__ TC
GAM130 HSU79275 3' TAGTCACAAGATTACCAT 2746 T__ __
 ATGGT TCT GTGACTA
 ||||| |||||
 TACCA AGA CACTGAT
 TTT A
GAM130 KALI 3' AGTGAGCCAAATCATGCC 2346 CT G_
 GGCATGGTTT GT ACT
 ||||||| |||||
 CCGTACTAAA CG TGA
 AC AG
GAM130 KIAA0121 3' TAGTCACAGAGTGGCTG 2957 ATGGT
 CGGC TTCTGTGACTA
 ||| |||||||

GTCTG GAGACACTGAT
GT
GAM130 KIAA0254 3' AGTCACAGGGAAAGTGCTG 1540 GG TT
CGGCAT T CTGTGACT
||||| | |||||
GTCGTG A GACACTGA
A_ GG

GAM130 KIAA0820 3' AGCACAAACCATGTC 2838 TC A
GGCATGGTT TGTG CT
||||||| |||||
CTGTACCAA ACAC GA

GAM130 KIAA0863 3' AGTCATGGAGACCAGCC 3669 A
GGC TGGTTCTGTGACT
||| |||||||||
CCG ACCAGAGGTACTGA

GAM130 KIAA1023 3' AGCCACAGGGAGATGTC 1728 GG A
GGCAT TTTCTGTG CT
|||| ||||| ||
CTGTA GAGGACAC GA
C

GAM130 KIAA1161 5' AGTCACAGAACATCTCC 3213 CAT _
GG GGT TTCTGTGACT
|| |||||||||
CC CTA AAGACACTGA
T_ C

GAM130 KIAA1254 3' TCACAGAAAGTAAAGCCG 2876 A_ G
CGGC TG TTTCTGTGA
||| |||||||||
GCCG AT AAAGACACT
AA G

GAM130 KIAA1805 3' TAGCTTGTGAAACCATTCC 3148 C T TG _
GG ATGGTTTC G A CTA
|| ||||| | | |||
CC TACCAAAG T T GAT
T _ GT C

GAM130 KIAA1866 3' TCACAGGACCGTCATGCTG 2587 T __
CGGCATGG TTCTGTGA
||||| |||||
GTCGTACT AGGACACT
GCC

GAM130 KIAA1958 3' AGTGAGCCGAGACCATGCC 3218 T G __
GGCATGGTTTC GT ACT
||||||| || |||
CCGTACCAGAG CG TGA
C AG

GAM130 LIMK2 5' AGTCACAGACGGATTGTC 1709 T __
GCA GGTT TCTGTGACT
||| |||||

CGT TTAG AGACACTGA
 — GC
 GAM130 MGC12921 5' AGTCACAGCAGCTGCC 2666 TG T
 GGCA GTT CTGTGACT
 |||| |||||
 CCGT CGA GACACTGA
 — C
 GAM130 MGC5149 3' TAGCCACAGAAATGTC 2939 GGT A
 GGCAT TTCTGTG CTA
 |||| ||||| |||
 CTGTA AAGACAC GAT
 — C
 GAM130 MOST2 5' AGCCACCTGGCCATGCTG 1909 TCT A
 CGGCATGGTT GTG CT
 ||||||| |||||
 GTCGTACCGG CAC GA
 TC_ C
 GAM130 MRPL9 3' AGTAGACCGAAACCATCC 2195 C T G_
 GG ATGGTTTC GT ACT
 || ||||| || |||
 CC TACCAAAG CA TGA
 — C GA
 GAM130 NCBP2 3' AGTCACAGAAGGTTCC 1397 C GG
 GG AT TTTCTGTGACT
 || || |||||
 CC TG GAAGACACTGA
 T —
 GAM130 PCYT1B 3' TAGTCACAGGAGCTGC 1160 TG
 GCA GTTTCTGTGACTA
 ||| |||||
 CGT CGAGGACACTGAT
 —
 GAM130 PIP3-E 3' AGTCACAAACAATGTC 2764 G TC
 GGCAT GTT TGTGACT
 |||| |||
 CTGTA CAA ACACTGA
 A —
 GAM130 PPP1R15B 5' AGTCGGAAAACCATCGCCG 2288 — CTG
 CGGC ATGGTT TGACT
 ||| ||||| |||||
 GCCG TACCAAA GCTGA
 C AG_
 GAM130 TFIP11 3' TAGTCACAGTAATCCCC 1410 CAT T
 GG GGTT CTGTGACTA
 || |||| |||||
 CC CTAA GACACTGAT
 C_ T
 GAM130 LOC132617 3' AGTTGAAATCATGCC 3039 TGT
 GGCATGGTTTC GACT
 ||||||| |||||

CCGTACTAAAG TTGA
T__
GAM130 LOC147660 3' AGTCACAGATCACGCC 3111 A TT
GGC TGG TCTGTGACT
||| ||| |||||
CCG ACT AGACACTGA
C __
GAM130 LOC149302 5' AGTCACAGCAGCCGCC 3129 AT T
GGC GGTT CTGTGACT
||| ||| |||||
CCG CCGA GACACTGA
— C
GAM130 LOC151720 5' AGTCACAAAAACCATGCTG 3160 C
CGGCATGGTT TGTGACT
||||||| |||||
GTCGTACCAAA ACACTGA
A
GAM130 LOC152215 3' TAGTCACAAAGGGCTTACG 3167 GCAT C__
CG GGT TT TGTGACTA
|| ||||| |||||
GC TCGGG ACACTGAT
AT__ AA
GAM130 LOC152426 3' AGTCACAGGCAGGTGCC 3359 G_ TT
GGCAT GT CTGTGACT
||| ||| |||||
CCGTG CG GACACTGA
GA __
GAM130 LOC155179 3' AGCCACAGGAGATGTC 3199 GG A
GGCAT TTTCTGTG CT
||||| ||||| ||
CTGTA GAGGACAC GA
— C
GAM130 LOC157562 5' TAGTCACATGGCCACACC 3381 CA TC
GG TGGTT TGTGACTA
|| ||||| |||||
CC ACCGG ACACTGAT
AC T__
GAM130 LOC163115 3' AGTCACAGATCCGATGTC 3244 _ TT
GGCAT GG TCTGTGACT
||| ||| |||||
CTGTA CC AGACACTGA
G T__
GAM130 LOC169026 3' TAGTCACAAAATTTACC 3260 CAT C
GG GGT TT TGTGACTA
|| ||||| |||||
CC TTAAA ACACTGAT
ATT —
GAM130 LOC170106 5' AGCCACAGGAAGTGTCC 3255 C G A
GG ATG TTTCTGTG CT
||| ||||| ||

CC TGT AAGGACAC GA
_ G C
GAM130 LOC170425 5' TAGTCACAACCCAATGC 3048 __ TTC
GCAT GGT TGTGACTA
||| ||| |||||
CGTA CCA ACAC TGAT
AC __
GAM130 LOC197342 3' AGTCACAGAAGGACTCGCC 3423 AT __
GGC GGTT TCTGTGACT
||| ||| |||||
CCG TCAG AGAC ACTGA
C_ GA
GAM130 LOC200488 5' AGTCATGATCATGCCG 3477 TCT
CGGCATGGTT GTGACT
||||||| |||||
GCCGTACTAG TACTGA

GAM130 LOC219667 3' TAGTCACAAATCAGAACTG 3517 CA_ TC
CGG TGGTT TGTGACTA
||| ||| |||||
GTC ACTAA ACAC TGAT
AAG __
GAM130 LOC220980 5' AGCCACGTGAGCCATGCC 3592 C A
GGCATGGTTT TGTG CT
||||||| |||||
CCGTACCGAG GCAC GA
T C
GAM130 LOC253461 3' AGCCACAGAAAATATAACC 3700 C G A
GG ATG TTTCTGTG CT
||| ||| ||||| ||
CC TAT AAAGACAC GA
A A C
GAM130 LOC253502 3' AGCCACAGAGGCCCTGCC 3660 T A
GGCA GGTTCTGTG CT
|||| ||||| ||
CCGT CCGGAGACAC GA
_ C
GAM130 LOC254211 5' AGTCACAGAGAGGTGCC 3707 GG
GGCAT TTTCTGTGACT
|||| |||||
CCGTG AGAGACACTGA
G_
GAM130 LOC90785 3' AGTGAGCCGAGACCATACC 2677 C T G_
GG ATGGTTTC GT ACT
||| ||||| || |||
CC TACCAGAG CG TGA
A C AG
GAM130 LOC91050 3' AGTCACAGAAAATCATTCT 2701 C
GG ATGGTTCTGTGACT
||| |||||

TC TACTAAAGACACTGA
T
GAM130 LOC91380 3' AGTGAGCCGAGACCATGCC 2733 T G_
GGCATGGTTTC GT ACT
|||||| || |||
CCGTACCAGAG CG TGA
C AG

GAM131 EIF2C1 3' TTATTCCTCTGTCCACA 1414 A T TACA
TG TGGACAGA GA AATAA
|| |||| || |||||
AC ACCTGTCT CT TTATT
_ _ CC_

GAM131 PCDHA9 3' TATCTATATCTGTCTATCA 1461 —
TGATGGACAGAT GATA
|||||| || |||||
ACTATCTGTCTA CTAT
TAT

GAM131 KIAA0923 3' TATTTGTGTTGTCCATT 1463 GATG
GATGGACA ATACAAATA
|||||| |||||
TTACCTGT TGTGTTAT

GAM131 UBF-fl 3' ATTTGTATATCTATCTACCA 2287 A C A
TG TGGA AGATG TACAAAT
|| |||| |||||
AC ATCT TCTAT ATGTTTA
C A _

GAM131 LOC119548 3' CTTATCTGTTATGTGTTCATCA 2983 G CAA
TGATGGACA ATGATA ATAAG
|||||| |||||
ACTACTTGT TATTGT TATTC
G C_

GAM131 LOC120400 5' CTTATCCATCTGTCCATT 3027 T ACAC
TGATGGACAGA GAT ATAAG
|||||| || |||||
ATTACCTGTCT CTA TATTC
_ CC_

GAM132 NARS 3' AAAGTTCGGGAAAATACC 1125 TA CAA
GGTATTTTT TGG ACTTT
|||||| || |||||
CCATAAAAG GCT TGAAA
GG _

GAM132 BFAR 3' TGCACATAAAAATACCG 2581 —
CGGTATTTTTATG GCA
|||||| |||||
GCCATAAAAATAC CGT
A

GAM132 HSNOV1 3' AAAGTTCAAAAGTAGAAATACC 1720 TATGGCA
GGTATTTTT AACTTT
|||||| |||||

CCATAAAGA TTGAAA
 TGAAAAAC
 GAM132 KIAA0628 3' AGGCTGCCATAACAAAAATACC 1547 — AA
 GGTATTTT TTATGGCA CT
 ||||| ||||| ||
 CCATAAAA AATACCGT GA
 C CG

GAM132 KIAA1393 3' TAAAGTTGATTGGAACATACC 2936 T TGG
 GGTAT TTTTA CAAACTTA
 ||||| |||||
 CCATA AAGGT GTTGAAAT
 C TA_

GAM132 LOC147054 5' TAAAGTTACATGCTACAAAAA 3289 A —
 ATAC GTATTTTT TGGCA AACTTTA
 ||||| |||||
 CATAAAAAA ATCGT TTGAAAT
 C ACAT

GAM133 TRIM 3' CAAATGTAAGGCCATGA 1684 AA GAC
 TCAT GCTT TACATTG
 ||||| |||||
 AGTA CGGA ATGTAAC
 C_

GAM133 MGC11296 3' CCAAATGTAAGTGCCATGA 2248 AA_ TGAC
 TCAT GCT TACATTGG
 ||||| |||||
 AGTA TGA ATGTAACC
 CCG _

GAM133 PRO2037 5' CAAATGCTTTATGATA 1853 TTGACTA
 TATCATAAGC CATTG
 ||||| |||||
 ATAGTATTG GTAAC
 TC_

GAM134 PMX1 3' TCTATAGTGATGAAACATT 1996 A ACCGT
 AATG TTTCATCA TAGA
 ||||| |||||
 TTAC AAAGTAGT ATCT
 — GAT_

GAM134 FLJ22557 3' TCTGGCATGATAAAATCATGGA 2083 A C ACC
 TC ATGATTT ATCA GTTAGA
 ||||| |||||
 AG TACTAAA TAGT CGGTCT
 G A A_

GAM134 KIAA0618 5' TCTAGTGGATGAGAATCA 1563 CA A
 TGATTT TCA CCGTTAGA
 ||||| |||||
 ACTAAG AGT GGTGATCT
 — A

GAM134 LOC154215 3' AACGGTTGCCGGCCATTG 3188 ATT AT
 CAATG TC CAACCGTT
 ||||| |||||

		GTTAC GG GTTGGCAA C_ CC	
GAM135	GARP	3' ATCAACAAATCTTCACTGAGC 1220 GCTC GT ATTTGTTGAT CGAG CA TAAACAACTA T CTTC	C TTA_
GAM135	TEM8	3' AGGGAATTAAAGAAAGGCCATG 1790 CATGGCT TTTAATT TT GTACCGA AAATTAAG GA AAG G	CCG G
GAM135	TRHR	3' ATCAACAAAAGGGAGAACATG 1009 CATG CTCC TTT TGTTGAT GTAC GAGG AAA ACAACTA AA G __	G_ G AATT
GAM135	LGI2	3' ATCAACAAACAAATCAAAGCCA 1792 TGGCT GTTT TTTGTTGAT ACCGA TAAA AAACAACTA AAC C_	CC_ AA
GAM135	MGC4638	3' TCAACAAATGTGAGTCAT 2212 ATGGCTC ATTTGTTGA TACTGAG TAAACAAC TG__	CGTTTA
GAM135	LOC139065	5' CAACAAACAAGAGCTATG 3035 CATGGCTC TTTGTTG GTATCGAG AAACAAC AAC__	CGTTTAA
GAM135	LOC154282	3' ATCAACAAAAGGAGGACCA 3372 TGG TCC TTT TTTGTTGAT ACC AGG AGG AAACAAC _ _ AA	C G AA
GAM135	LOC91516	5' CAACAAAAGGAGCTAT 2745 ATGGCTCC TTTGTTG TATCGAGG AAACAAC AA__	GTTTAA
GAM136	C20orf28	3' CCACTCCGGAGATCCGGGT 1629 ACTCGGATCT CT TGG TGGGCCTAGA GG ACC _ CCTC	G ATA_
GAM136	MGC5139	5' CCAAAGAAGATCCGAGTT 2994 AACTCGGATCT CT TGG 	G ATA

TTGAGCCTAGA GA ACC
 A A_

GAM136 PRO0899 3' CCTGCAGCAGACCCGAGTTG 1847 A A T
 TAACTCGG TCTGCT TA GG
 |||||| |||| ||||
 GTTGAGCC AGACGA GT CC
 C C _

GAM136 PRO1386 3' CCACATAGCAAGGTCTGA 2187 _ A
 TCGGATCT GCTAT TGG
 |||||| |||| ||||
 AGTCTGGA CGATA ACC
 A C

GAM136 PTPRT 3' CCATGTAAATCCGGGTTA 2399 CTGC
 TAACTCGGAT TATATGG
 |||||| |||| ||||
 ATTGGGCCTA ATGTACC
 A _

GAM136 TCL6 3' CCATTGCAGATTGAGT 1919 TAT
 ACTCGGATCTGC ATGG
 |||||| |||| ||||
 TGAGCTTAGACG TACC
 T _

GAM136 TCL6 3' CCATTGCAGATTGAGT 1433 TAT
 ACTCGGATCTGC ATGG
 |||||| |||| ||||
 TGAGCTTAGACG TACC
 T _

GAM136 TEX27 3' CCATATAGCAAGTTAGT 1968 C TC
 ACT GGA TGCTATATGG
 ||| ||| |||||||||
 TGA TTT ACGATATACC
 _ GA

GAM136 LOC255759 5' CCTGTCAGGATCCGAGT 3739 GCT T
 ACTCGGATCT ATA GG
 |||||| |||| ||||
 TGAGCCTAGG TGT CC
 AC_ _

GAM137 APXL 3' ACTTACTTATTTTATCTA 842 CT C
 TAGATAAA AT AGTAAGT
 |||||| |||| ||||
 ATCTATTT TA TCATTCA
 T_ T

GAM137 CKN1 3' ACTTCTGTATAGTTATTTAGT 702 _ T
 CA TGACTAGATAAACTAT CAG AAGT
 |||||||||| |||| ||||
 ACTGATTTATTTGATA GTC TTCA
 T_ _

GAM137 HMGA2 3' ACCTACTAATAGTTGTTGATC 1032 CTA C A
 GA GATAAACTAT AGTA GT
 || |||||||| |||| ||

CT TTGTTTGATA TCAT CA
 AG_ A C
 GAM137 ZNF36 3' ACTTAAGGATCCTCTAGTCA 3626 TAAACT AG
 TGACTAGA ATC TAAGT
 ||||| |||||
 ACTGATCT TAG ATTCA
 TCC__ GA
 GAM137 FLJ23191 3' GTTGATAGCCCTCTAGTCA 2065 TAAA
 TGACTAGA CTATCAGT
 ||||| |||||
 ACTGATCT GATAGTTG
 CCC__
 GAM137 KIAA0841 3' ACTTACTGAAATTCCCAGTCA 2918 A_ TAAACTA
 TGACT GA TCAGTAAGT
 ||||| |||||
 ACTGA CT AGTCATTCA
 CC TAA__
 GAM137 KIAA1243 3' ACCTATGGGCAGTTTATCTG 2977 AT A A
 TAGATAAACT C GTA GT
 ||||| |||||
 GTCTATTTGA G TAT CA
 CG G C
 GAM137 RNF20 3' CTGTAGGACAGTTTATCAGTCA 1882 A A AGTA
 TGACT GATAAACT TC AG
 ||||| ||||| |||||
 ACTGA CTATTGA AG TC
 _ C GATG
 GAM137 LOC118851 3' ACTTTGGAAATTCATCTGGTC 3025 A CTA AGT
 A TGACTAGAT AA TC AAGT
 ||||| |||||
 ACTGGTCTA TT AG TTCA
 C AA_ GGT
 GAM137 LOC150005 3' ACTAGCTGCTTCTAGTCA 3322 TAAACTAT A
 TGACTAGA CAGT AGT
 ||||| |||||
 ACTGATCT GTCG TCA
 TC__ A
 GAM137 LOC221036 3' ACTTACCGATAGTTCACT 3585 A TA A
 ACT GA AACTATC GTAAGT
 ||||| |||||
 TGA CT TTGATAG CATTCA
 _ __ C
 GAM138 COG7 3' AAAAGAGTTGAAATTAAAGAT 2795 __ G
 G TATCTTTAA TA AACTCTTT
 ||||| |||||
 GTAGAAATT AT TTGAGAAAA
 AA G
 GAM138 DUSP5 3' GAAAAGAGTTCTTCAGAT 1111 TTAAT
 ATCT AGAACTCTTT
 ||||| |||||

TAGA TCTTGAGAAAAG
CT_____
GAM138 C6orf29 3' AAAAGATTTATTAAAGATA 2278 C
TATCTTTAATAGAA TCTTTT
||||||| |||||
ATAGAAATTATTT AGAAAA

GAM138 CGR19 3' GAAAAGTACACTTCTACTAAA 1311 A CT_____
GATG TATCTTTA TAGAA CTTTC
||||||| |||||
GTAGAAAT ATCTT GAAAAG
C TCACAT

GAM138 DSCR6 3' GAAAAGAGTAACAGAAAGATAG 1865 AATAGA
CTATCTTT ACTCTTTTC
||||||| |||||
GATAGAAA TGAGAAAAG
GACAA_

GAM138 ETL 3' GAAATAGTTCTGTCAAAAATAG 1982 C A CT
T ACTAT TTT ATAGAACT TTTC
||||||| |||||
TGATA AAA TGTCTTGA AAAG
A C T_

GAM138 FLJ21269 3' GAGGCTTATTAAAAATAGT 2138 C AA
ACTAT TTTAATAG CTC
||||||| |||||
TGATA AAATTATT GAG
A CG

GAM138 HNT 3' GAAAAGAGTTTAAAAAAGA 1692 AA
TCTTT TAGAACTCTTTTC
||||| |||||||
AGAAA ATTTGAGAAAAG
AA

GAM138 KCNB2 3' AAAAGAGCTCTATTAGGA 3690 T A
TCTT AATAGA CTCTTT
||||||| |||||
AGGA TTATCT GAGAAAA
C

GAM138 KIAA0794 3' GAAAAGAACAAAGAAAGATAG 3163 AATAGAAC
CTATCTTT TCTTTTC
||||||| |||||
GATAGAAA AGAAAAG
GAACA_

GAM138 LOC123342 5' GAAAAGAGTTCTAACATGGT 3031 C TAA
ACTAT TT TAGAACTCTTTTC
||||||| |||||||
TGGTA AA ATCTTGAGAAAAG
C __

GAM138 LOC144920 3' AAAAGAGTTCTAAAGAAATAG 3270 C AA
CTAT TTT TAGAACTCTTT
||||||| |||||||

GATA AAG ATCTTGAGAAAA
_ AA
GAM138 LOC153688 3' GAAAAGAGTTTCTGCAAGATA 3370 TAA _
TATCTT TAGAA CTCTTTTC
||||| ||||| |||||
ATAGAA GTCTT GAGAAAAG
C_ T
GAM138 LOC51336 5' GAAAAGAATTCTGTTGAAATCA 1707 ATC C
GT ACT TTTAATAGAA TCTTTTC
||| ||||| |||||
TGA AAGTTGTCTT AGAAAAG
CTA A
GAM139 SCN1A 3' GAAAAACAAATTCTTAAATTTC 3451 TA_ C
A TGG TTAAGAATT GTTTTC
||| ||||| |||||
ACT AATTCTTAA CAAAAAG
TTA A
GAM139 FLJ13315 5' GAAAAACGGAGGATTAAACCA 2127 A GAA
TGGT TTAA TTCGTTTTTC
||| ||| |||||
ACCA AATT AGGCAAAAAG
A AGG
GAM139 KIAA0940 3' AAAATGGTATTATTAATACCAT 1584 G _
A TATGGTATTAA AAT TCGTTTT
||||| ||| |||||
ATACCATAATT TTA GGTAAAA
A T
GAM139 SARM 3' GAAATATAATTCTTAATATCAT 1608 C T
A TATGGTATTAAAGAATT GT TTTC
||||||| ||| |||||
ATACTATAATTCTTAA TA AAAG
_ T
GAM139 LOC144231 5' TGTAATTCTTAATACCAT 3266 _
ATGGTATTAAAGAATT CG
||||||| |||||
TACCATATTCTTAA GT
T
GAM139 LOC148734 3' GAAAATGGGCCCTTAATAC 3124 AA_
GTATTAAG TTCGTTTT
||||| |||||
CATAATTG GGGTAAAAG
CCG
GAM140 MBD1 3' TTAAATATGCATCTGGCCCAGG 924 C TTTTA
AA TTCCT GGCCA ATATTTAA
||||| ||||| |||||
AAGGA CCGGT TATAAATT
C CTACG
GAM140 MBD1 3' TTAAATATGCATCTGGCCCAGG 1644 C TTTTA
AA TTCCT GGCCA ATATTTAA
||||| |||||

		AAGGA CCGGT	TATAAATT	
		C CTACG		
GAM140	MBD1	3' TTAAATATGCATCTGGCCCAGG 1645	C TTTTA	
	AA	TTCCT GGCCA ATATTTAA		
		AAGGA CCGGT	TATAAATT	
		C CTACG		
GAM140	MBD1	3' TTAAATATGCATCTGGCCCAGG 1646	C TTTTA	
	AA	TTCCT GGCCA ATATTTAA		
		AAGGA CCGGT	TATAAATT	
		C CTACG		
GAM140	LOC254734	3' TTAAATATTCAGAACCGAGGA 3666	CCA T	
		TCCTCGG TTT AATATTTAA		
		AGGAGCC AGA TTATAAATT		
		A__ C		
GAM140	LOC51026	3' AAGTATTAAAACCAAGGAA 1659	C CCA	
		TTCCT GG TTTTAATATTT		
		AAGGA CC AAAATTATGAA		
		A __		
GAM141	AICDA	3' TTGCAAGGAAATTGTGCTTTAT 1923	C____ C	
	C	GATAAAGC TTCCT GCAA		
		CTATTCG AAGGA CGTT		
		TGTTA A		
GAM141	GCG	3' GGAATAAAGTTTATCAA 895	C__	
		TTTGATAAAGC TTCC		
		AAACTATTTG AAGG		
		AAAT		
GAM141	PTPN1	3' TTGCATCAAGGGCTTATCAA 960	CCTC	
		TTTGATAAAGCCTT GCAA		
		AAACTATTCGGGA CGTT		
		ACTA		
GAM141	SCO2	5' GCGAGGAGCATCAGA 1189	AAA CT	
		TTTGAT GC TCCTCGC		
		AGACTA CG AGGAGCG		
GAM141	UNG	3' TGTGAGCTTATCAGA 2394	CTTCC	
		TTTGATAAAGC TCGCA		
		AGACTATTCG AGTGT		
GAM141	UNG	3' TGTGAGCTTATCAGA 1013	CTTCC	
		TTTGATAAAGC TCGCA		

AGACTATTCG AGTGT

GAM141 BM046 3' TGCAAGAAAAAGGACTTATTAA 1831 AG C__ C
A TTTGATAA CCTT CT GCA
|||||| |||| |||||
AAATTATT GGAA GA CGT
CA AAA A

GAM141 DKFZP761G1913 3' TGCCAGGCTTGCCAAA 2209 A TCCTC
TTTG TAAAGCCT GCA
|||| ||||| |||||
AAAC GTTTCGGA CGT
C C__

GAM141 KIAA0057 3' GTGAGGAAGACTTACCAA 1422 A C
TTG TAAAG CTTCCCTCGC
|||| ||||| |||||
AAC ATTTG GAAGGAGTG
C A

GAM141 RTCD1 3' TTGCTGAGAAGGCCTTCATTAAA 1053 A C _
TTTGAT AAGCCTTC TC GCAA
|||| ||||| |||||
AAATTA TTCGGAAG AG CGTT
C _ T

GAM141 LOC127396 3' TGAGAAGGCCTTATTAAA 3005 A C
TTTGATAA GCCTTC TCG
|||| ||||| |||||
AAATTATT CGGAAG AGT
C _

GAM141 LOC130074 3' TGAGAGGCCATTATGAAA 3044 G TC
TTT ATAAAGCCT CTCG
|||| ||||| |||||
AAA TATTCGGA GAGT
G _

GAM141 LOC149134 5' TGCAGGAAAGTTACCAA 3308 ATA C C
TTTG AAGC TTCCT GCA
|||| ||||| |||||
AAAC TTTG AAGGA CGT
CA_ A _

GAM141 LOC219818 3' TTGCAAGGAAGGCCTAATCA 3503 AAA C
TGAT GCCTTCCT GCAA
|||| ||||| |||||
ACTA CGGAAGGA CGTT
ATC A

GAM141 LOC256714 3' TGCTGGCCTTAGCAAA 3702 A TCCTC
TTTG TAAAGCCT GCA
|||| ||||| |||||
AAAC ATTTGGG CGT
G T__

GAM141 LOC91149 5' TGCAAAGAAGGTTCCAGA 2714 ATA CTC
TTTG AAGCCTTC GCA
|||| ||||| |||||

AGAC TTTGGAAG CGT
 C_ AAA
 GAM142 ACADSB 3' CCATCATTGGAAAAATAAAGG 838 — C TA
 C GCCTTATT TCCA AT GATGG
 ||||| |||| |||||
 CGGAAATAA AGGT TA CTACC
 AA T __

GAM142 EDAR 3' CCATTTAAATGGGAATAAA 1985 CA
 TTTATTTCCA TTAGATGG
 ||||| |||||
 AAATAAGGGT AATTACC
 A_

GAM142 MAX 3' CCATTCCATGGAAATAAA 2515 CATTA
 TTTATTTCCA GATGG
 ||||| |||||
 AAATAAAGGT TTACC
 ACC_

GAM142 MAX 3' CCATTCCATGGAAATAAA 923 CATTA
 TTTATTTCCA GATGG
 ||||| |||||
 AAATAAAGGT TTACC
 ACC_

GAM142 MPO 3' AATGTTTATGATAATAAAGGC 722 _ C __
 GCCTTATT TC ACATT
 ||||| |||||
 CGGAAATAA AG TGTAA
 T TATT

GAM142 NEK4 3' TAATGTAGAGATAAAAAGC 995 C C
 GC TTTATTT ACATTA
 || ||||| |||||
 CG AAATAGAG TGTAAT
 A A

GAM142 C20orf170 3' CCAAAATAATAATGAAAATAAA 2608 C C_ GA_
 GGC GCCTTATT CA ATTA TGG
 ||||| || ||| |||
 CGGAAATAAA GT TAAT ACC
 A AA AAA

GAM142 FLJ20435 3' CCATCTGGAGGAAATAAA 1756 ACA
 TTTATTTCC TTAGATGG
 ||||| |||||
 AAATAAAGG GGTCTACC
 A_

GAM142 FLJ23071 3' CCATCTAATGTTTAAAAGGC 2143 ATTTCC
 GCCTT ACATTAGATGG
 ||||| ||||| |||||
 CGGAAA TGTAATCTACC
 ATTT__

GAM142 KIAA0562 3' CCACTATAGCAAGAAATAAAGG 1525 CACAT_ A
 C GCCTTATTTC TAG TGG
 ||||| || |||||

CGGAAATAAAG ATC ACC
 AACGAT _
 GAM142 LRRFIP1 3' CCACTTAATAAAAATAGAGGC 1151 CCAC A
 GCCTTTATT ATTAG TGG
 ||||| ||||| |||
 CGGAGATAAA TAATT ACC
 AA_ C
 GAM142 P115 3' CCATCTAATGTGATTGCTAAG 1051 TATTC
 CTT CACATTAGATGG
 ||| |||||||||
 GAA GTGTAATCTACC
 TCGTTA
 GAM142 SDCCAG16 3' CATTTTAAAAATAAAGGC 1316 CCACATT
 GCCTTTATT AGATG
 ||||| |||||
 CGGAAATAAA TTTAC
 AAT_—
 GAM142 TIAF1 3' GATGTATGGAAATAAAGGC 2370 —
 GCCTTTATTCC ACATT
 ||||||||| |||||
 CGGAAATAAAGG TGTAG
 TA
 GAM142 LOC149711 3' CCAAAATAATAATGAAAATAAA 3314 C C_ GA_
 GGC GCCTTTATT CA ATTA TGG
 ||||| ||| |||||
 CGGAAATAAA GT TAAT ACC
 A AA AAA
 GAM142 LOC169933 5' CCAGTAGGTGAAGATAAAGGC 3251 C ATTAGA
 GCCTTTATT CAC TGG
 ||||| ||| |||
 CGGAAATAGA GTG ACC
 A GATG_—
 GAM143 SNX9 3' ACAAAATTGTAAAGAATATGT 1673 CCG
 ACATAT TTACAATTGT
 ||||| |||||||
 TGTATA AATGTTAACAA
 AGA
 GAM143 TOX 5' AACAAACCACAAACGGATGTG 1533 ACAA_
 CATATCCGTT TTTGTT
 ||||| |||||
 GTGTAGGCAA AAACAA
 ACACC
 GAM143 DKFZP434C212 3' AACAAATTGCATAGGAGTGT 2833 A GTTA
 ACAT TCC CAATTTGTT
 ||||| |||||||
 TGTG AGG GTTAAACAA
 — ATAC
 GAM143 LOC151438 5' AACAAACCAAAACGGATATG 3345 ACAA_
 CATATCCGTT TTTGTT
 ||||| |||||

GTATAGGCAA AAACAA
AAACC
GAM143 LOC221663 3' AACAAATTGCATGGATTGT 3619 T TA
ACA ATCCGT CAATTGTT
||| ||||| |||||
TGT TAGGTA GTTAAACAA
T C_
GAM143 LOC257358 5' AACATGACTAACGGATATT 3730 C CAATT
A ATATCCGTTA TGTT
| ||||| | |||
C TATAGGCAAT ACAA
T CAGT_
GAM143 LOC56832 3' AACAAATTGTGGATCATG 2703 _ GTT
CAT ATCC ACAATTGTT
||| ||||| |||||
GTA TAGG TGTTAAACAA
C __
GAM144 SOX9 3' ATGATCCTAAAAATAACCG 732 TG C_
CG TGTTT AGGATCAT
|| ||||| |||||
GC ATAAA TCCTAGTA
CA AA
GAM144 FLJ14356 3' ATGAATGCAAACACATG 2171 _ GGA
CGTGTGTTT CA TCAT
||||||| || | |||
GTACACAAA GT AGTA
C A__
GAM144 KIAA0982 3' ATGACCCTGAAATGACTG 1464 C G A
CA GT TGTTTCAGG TCAT
|| || ||||| |||||
GT CA GTAAAGTCC AGTA
C
GAM144 KIAA1028 3' ATGATCCTGAAGAAAAAGGTGA 3546 ACGTGTG
TCACC TTTCAGGATCAT
||||| ||||||| |||||
AGTGG GAAGTCCTAGTA
AAAAAA__
GAM144 PCQAP 3' CCTTAAACACACATGGGA 1649 A C C_
TC CCA GTGTGTTT AGG
|| || ||||| |||||
AG GGT CACACAAA TCC
_ A AT
GAM144 PRKWNK2 3' GATCCTGAAATCAAGG 3488 ACG T
CC TG GTTTCAAGGATC
|| || ||||| |||||
GG AC TAAAGTCCTAG
A__
GAM144 RCD-8 3' ATGACCCTGAGATCGTG 1491 TGT A
CACG GTTTCAAGG TCAT
||| ||||| |||||

GTGC TAGAGTCC AGTA

 C
 GAM144 SMOC2 3' ATGATCCTAAACTTTTG 2945 CGTGT C
 CCA GTTT AGGATCAT
 |||||||
 GGT CAAA TCCTAGTA
 TTTT_ _
 GAM144 SYNJ2 3' ATCCTGAGCCATGGTG 2605 CG T T
 CACCA TG GTT CAGGAT
 |||||||
 GTGGT AC CGA GTCCTA

 GAM144 TRABID 3' ATGACCCTAAAGTTAGTGTGGT 2823 GTG C A
 G CACCACGT TTT AGG TCAT
 ||||||| |||||
 GTGGTGTG GAA TCC AGTA
 ATT A C
 GAM144 TSGA14 3' CTGTGGACACACAAGGTGA 1861 AC _
 TCACC GTGTGTTT CAG
 ||||||| |||
 AGTGG CACACAGG GTC
 AA T
 GAM144 LOC197201 3' TCTGGAAAACAACACACGGTGA 3421 AC _____
 TCACC GTGTGT TTCAGG
 ||||||| |||||
 AGTGG CACACA AGGTCT
 _____ ACAAA
 GAM144 LOC219401 3' ATGAAGCAAACACACCGTAGG 3579 _ CAGGA
 CC ACGTGTGTT TCAT
 || ||||||| |||
 GG TGCACACAAA AGTA
 A CGA_
 GAM145 INHBA 3' ACTAGAACACCCAAATAGCA 904 C C CCAG
 TGCTATTG TG TG AGT
 ||||||| |||
 ACGATAAA CC AC TCA
 C A AAGA
 GAM145 TBXAS1 5' ACACTCTGAGAAAGAGCA 2182 A GGCTGC
 TGCT TTTC CAGAGTGT
 |||||||
 ACGA AAAG GTCTCACA
 G A_
 GAM145 TBXAS1 5' ACACTCTGAGAAAGAGCA 798 A GGCTGC
 TGCT TTTC CAGAGTGT
 |||||||
 ACGA AAAG GTCTCACA
 G A_
 GAM145 KIAA1056 5' ACACTTAGCCGAGCCAAATA 1576 C CA_
 GCA TGCTATTG GGCTGC GAGTGT
 ||||||| |||||

ACGATAAA CCGACG TTCACA
_ CCGAC
GAM145 LOC197342 3' GACACCTGGCTGAGCCGGAACA 3424 A — A
GCA TGCT TTTCGGCT GCCAG GTGTC
||||||| ||||| |||||
ACGA AAGGCCGA CGGTC CACAG
C GT _
GAM145 LOC91752 5' GACACTCTAGATGAAA 2779 G GCC
TTTCG CT AGAGTGTC
||||| || |||||
AAAGT GA TCTCACAG
A __
GAM146 FLJ11838 3' ATGAATAAACATATCTTG 2078
TAAGATATGTTATTCAT
|||||||||||
GTTCTATACAAATAAGTA

GAM147 ATP10C 3' AATACAGGAAACAAGAGGTAC 2062 T __
GT CCTC GTTTCCTGTATT
|| ||| |||||||
CA GGAG CAAAGGACATAA
T AA

GAM147 CASP10 3' ACAGGGAACAAAGAAACA 2304 C C __
TGTT CT GTTTCCTGT
||||| || |||||
ACAA GA CAAGGGACA
A AA

GAM147 ZNF36 3' GGAAACAGAACATAGA 3627 C C
TCTATGTT CT GTTTCC
||||| || |||||
AGATACAA GA CAAAGG
A __

GAM147 DORFIN 3' AATACAGGAAATAGATAAACAT 1630 CC __
G TATGTT TC GTTTCCTGTATT
||||| || |||||||
GTACAA AG TAAAGGACATAA
AT A

GAM147 FLJ21313 3' AATACAGGATGAAAAACACTGA 2037 TA CC TT
TC TGTT TCG TCCTGTATT
|| ||| || |||||
AG ACAAA AGT AGGACATAA
TC AA __

GAM147 KIAA1819 5' AATACAGGAGATAGAACCCAGA 2865 AT CTC
TCT GTTC GTTTCCTGTATT
||| ||| |||||||
AGA CAAG TAGAGGACATAA
C_ A__

GAM147 P37NB 3' ATGGGAAAAAAACATAGA 1254 CCTCG
TCTATGTT TTTCCGT
||||| || |||||

		AGATACAA	AAAGGGTA	
		AAA	___	
GAM147	RAP140	5' ATACAGATAGAACATAGA	1613	CC GTTTC
		TCTATGTT TC CTGTAT		
		AGATACAA AG GACATA		
		___ ATA		
GAM147	LOC127002	3' AATATAAAAACAGAACATAGA	3002	C C CC
		TCTATGTT CT GTTT TGTATT		
		AGATACAA GA CAAA ATATAA		
		A _ A		
GAM147	LOC132332	3' AATACAGTTGCAGAGGAGCATA	3046	_ TTC
		TATGTTCTC GT CTGTATT		
		ATACGAGGAG CG GACATAA		
		A TT		
GAM147	LOC145624	5' ACTAGAACAGAACATA	3276	GT CT
		TATGTTCTC TTC GT		
		ATACAAGGAG AAG CA		
		___ AT		
GAM148	NR4A2	3' AATAGTATTCAGACACTATG	1277	A CA
		TATAGT TCTGAAAT TATT		
		GTATCA AGACTTTA ATAA		
		C TG		
GAM148	PRKCN	3' ATGATTATTCAGACTGTA	1252	A ___
		TATAGTATCTG AATCAT		
		ATGTCATAGAC TTAGTA		
		CTTA		
GAM148	BIVM	3' ATGGTGGGTGATTCAGATAT	1739	AT_
		GTATCTGAAATCAT TCAT		
		TATAGACTTTAGTG GGT		
		GGT		
GAM148	DCLRE1A	3' ATGAAGATTGTTAGATACT	2843	ATCATA
		AGTATCTGAA TTCAT		
		TCATAGACTT AAGTA		
		GTTAG		
GAM148	EBF2	3' ATGAAGCCTTCAGATAC	1995	TCATA
		GTATCTGAAA TTCAT		
		CATAGACTTT AAGTA		
		CCG		
GAM148	FLJ10852	3' GAATATTTAGACTATA	1873	TC
		TATAGTATCTGAAA ATATTC		

ATATCATAGACTTT TATAAG

GAM148 FLJ20220 3' ATGAATAACATTCAGATAC 1742 CA
GTATCTGAAAT TATTCAT
||||||| |||||
CATAGACTTTA ATAAGTA
CA

GAM148 FLJ21952 3' ATGATATTCTAGATACTATA 1992 - -
TATAGTATCT GAA ATCAT
||||||| ||| |||||
ATATCATAGA CTT TAGTA
T A

GAM148 MGC10724 3' ATGAAGACCCAGATACTA 2274 AAA ATA
TAGTATCTG TC TTCAT
||||||| || |||||
ATCATAGAC AG AAGTA
CC_ _

GAM148 MGC4238 3' ATGGAAGGACTTCAGATAC 2247 A ATA
GTATCTGAA TC TTCAT
||||||| || |||||
CATAGACTT AG AGGTA
C GA_

GAM148 Rab11-FIP2 3' ATGACAGTATCTGCAGATACTA 1581 AAATCATAT
TA TATAGTATCTG TCAT
||||||| |||||
ATATCATAGAC AGTA
GTCTATGAC

GAM148 LOC90768 3' ATGAAGGTGTCCCAGATATT 2674 AAAT_ A
A TAGTATCTG CAT TTCAT
||||||| ||| |||||
ATTATAGAC GTG AAGTA
CCTGT G

GAM149 ANPEP 3' CCAAATCTGAGGAATCAAC 805 CT TA
GTTGAT CTCA GATTTAG
||||| ||||| |||||
CAAAGAGA CTAAATCT
ACC CCA_

GAM149 NP 3' TCTAAATCACCAAGAGACCAAC 724 GA_ CATA
GTT TCTCT GATTTAGA
||| ||||| |||||
CAAAGAGA CTAAATCT
ACC CCA_

GAM149 TFAP2C 3' CTAGATCAACAGATCAAC 1000 CTCATA
GTTGATCT GATTTAG
||||||| |||||
CAACTAGA CTAGATC
CAA_

GAM149 ZNF83 5' CCAAATGTGAGATCAAGGA 1813 G T AGAT
TC TTGATCTC CAT TTAG
|| ||||| ||| |||||

		AG AACTAGAG GTA AATC	
		G T _____	
GAM149	MGC26766	3' TTTACATCATGAGAGATCAA 2509	A T
		TTGATCTCTCAT GAT TAGA 	
		AACTAGAGAGTA CTA ATTT _ C	
GAM149	SCYB10	3' TCTAAATGTTGAAAGATCAA 836	C TAG
		TTGATCT TCA ATTTAGA 	
		AACTAGA AGT TAAATCT A TG_____	
GAM150	EBAF	3' TACAGCTGAGCAATGCA 2721	CG AAATA
		TGCAT GT TAGCTGTA 	
		ACGTA CG GTCGACAT A_ A_____	
GAM150	F7	3' ATACGCAAACACACCCGATGCA 706	AAATATA T
		TGCATCGGT GC GTAT 	
		ACGTAGCCA CG CATA CACAAA_ _	
GAM150	F7	3' ATACGCAAACACACCCGATGCA 1885	AAATATA T
		TGCATCGGT GC GTAT 	
		ACGTAGCCA CG CATA CACAAA_ _	
GAM150	MGC3771	3' TAGAACATTACCGATGC 2178	ATAG
		GCATCGGTAAAT CTG 	
		CGTAGCCATTAA GAT CAA_____	
GAM150	LOC146438	3' TAGAACATTACCGATGC 3091	ATAG
		GCATCGGTAAAT CTG 	
		CGTAGCCATTAA GAT CAA_____	
GAM151	BPGM	3' TAAGAAGAAATGCCAAAG 852	CG
		CTT GCATTTCTTTTA 	
		GAA CGTAAAGAAGAAT AA	
GAM151	HAS2	3' AAATGAAATGCCAAAGGAA 1198	C T
		TTCCTT GGCATTTC TTT 	
		AAGGAA CCGTAAAG AAA A T	
GAM151	HDAC2	3' CATAAAAAGAAAATATTGAAA 3507	_ CA_
		GGAA TTCCTT CGG TTTCTTTAATG 	

AAGGAA GTT AAAGAAAAATTAC
A ATA

GAM151 XRCC2 3' CATTAAAAAGTGGGCAAAGGA 1208 CG ATTT
TCCTT GC CTTTTTAATG
|||| || |||||
AGGAA CG GAAAAATTAC
A_ GGT_

GAM151 APACD 3' CATTAAAAAGAACCAAGGAA 1249 TC CA
TTCCT GG TTTCTTTTAATG
|||| || |||||
AAGGA CC AAAGAAAAATTAC

GAM151 SCIN 3' CATTAAAATAACCTGAAGGAA 2313 CATTCT
TTCCTTCGG TTTTAATG
|||||| |||||
AAGGAAGTC AAAATTAC
CAAT__

GAM151 USP16 3' CATTAAATACATGCCAGAAG 1303 _ TTCTT
CTTC GGCAT TTTAATG
||| |||| |||||
GAAG CCGTA AAATTAC
A CAT__

GAM151 LOC115004 3' AAAAGAAATCCGAAAGAA 2970 C C
TTC TTCGG ATTCTTTT
||| |||||
AAG AAGCC TAAAGAAAA
A _

GAM151 LOC146520 5' GAAGAGAAATGCCATAGGAA 3096 TC
TTCCT GGCATTTCTTTT
|||| |||||||
AAGGA CCGTAAAGAGAAG
TA

GAM151 LOC219333 3' CATTAAAAAAAAACATGCCG 3607 __ C
CGGCAT TT TTTTAATG
|||| || |||||
GCCGTA AA AAAATTAC
CA A

GAM152 EIF1A 3' CTTTGTGTTTTGGTTTACCT 3442 A_ TCT
AG TAAACTAAA CGCAAAG
|| ||||| |||||
TC ATTTGGTTT GTGTTTC
CC TT__

GAM152 ENAM 3' TTTGTTTTAGTTATCTTA 2217 A TCTC
TAAGATAA CTAAA GCAAA
|||||| |||||
ATTCTATT GATTT TGTTT
_ T__

GAM152 MYCL1 3' TTTGTGGTAGCTTATCTTA 1204 A AATC
TAAGATAA CTA TCGCAA
|||||| |||||

ATTCTATT GAT GGTGTTT
C _____
GAM152 ZNF42 5' CTTTGATGTATTCTAGTTTATC 1018 AATCT _
T AGATAAACTA CG CAAAG
|||||| |||||
TCTATTTGAT GT GTTTC
CTTAT A
GAM152 FLJ23604 3' AGAACATAGTTTATCTTA 2134 AA_
TAAGATAAACTA TCT
||||||| |||||
ATTCTATTTGAT AGA
ATA
GAM152 HEY2 3' AGATCTAGTTTATCTTA 1419 _ A
TAAGATAAA CTA ATCT
||||||| |||||
ATTCTATTT GAT TAGA
T C
GAM152 TSC22 3' TGGGACCTAGGCTATCTTA 1265 AA AA
TAAGATA CTA TCTCG
|||||| |||||
ATTCTAT GAT AGGGT
CG CC
GAM153 FLJ20296 3' ACATTAATAAAATTATTGATTC 1748 A CAA
CA TG AATC GGATTTATTAATGT
|| |||| |||||||||
AC TTAG TTTAAATAATTACA
C TTA
GAM153 RAB22A 3' ACATTAATAAAATTCTAAGTTTC 2546 CCA
A TGAAAT AGGATTTATTAATGT
|||||| |||||||||
ACTTTG TCTTAAATAATTACA
AA_
GAM153 UPLC1 3' ACATTTGTTCTTGGATCTCA 1740 A _ TTTATT
TGA ATCCAAG GA AATGT
||| ||||| || |||||
ACT TAGGTTTC CT TTACA
C T TGT_
GAM153 LOC122886 3' ACACTGTGTTCCCTTGGACCTC 3028 AA TT TAA
GA TCCAAGGA TAT TGT
|| ||||| ||| |||
CT AGGTTCCCT GTG ACA
CC T_ TC_
GAM153 LOC222194 3' ACATCATCTGTTCTTGGACCTC 3637 AA TTATTA
A TGA TCCAAGGAT ATGT
||| ||||| |||||
ACT AGGTTCTTG TACA
CC TCTAC_
GAM154 ITGB1 3' AGTAAATGTCCTGCTA 909 GA
TAGCAGGACATT TGCT
||||||| |||||

ATCGTCCTGTAA ATGA

GAM154 RHO 3' TCTAGAGCATGGAGCCTCTA 754 C ACA G
TAG AGG TT ATGCTCTAGA
||| ||| |||||||
ATC TCC AG TACGAGATCT
_ G_ G

GAM154 XPNPEP2 3' CTGGGTCCACATCCTGCTA 1015 CAT AT T
TAGCAGGA TG GC CTAG
|||||| || |||||
ATCGTCCT AC TG GGTC
AC_ C_ -

GAM154 FLJ12700 3' CTAGAACAGGATGTCCTGC 2110 GA C
GCAGGACATT TG TCTAG
|||||| || |||||
CGTCCTGTAG AC AGATC
G_ A

GAM154 FLJ13291 3' GTCCAGAGTTAACTGCCCTGCT 2234 A TTGAT A
G TAGCAGG CA GCTCT GAC
|||||| || |||||
GTCGTCC GT TGAGA CTG
C CAAT_ C

GAM154 FLJ20811 5' CTAGAGCACAAGTCCTGCTA 2782 A A
TAGCAGGAC TTG TGCTCTAG
|||||| |||||||
ATCGTCCTG AAC ACGAGATC

GAM154 KIAA1643 3' TCCAGAGCCTCTGTCCCTGC 2693 TT T A
GCAGGACA GA GCTCT GA
|||||| || |||||
CGTCCTGT CT CGAGA CT
_ C C

GAM154 KIAA1755 3' TCCAGAGCATTATCTGC 2596 ACATT A
GCAGG GATGCTCT GA
|||| |||||||
CGTCT TTACGAGA CT
AT__ C

GAM154 KIAA1762 3' GTCTAGAGCACACACCGCT 2669 A ACAT A
AGC GG TG TGCTCTAGAC
||| || |||||||
TCG CC AC ACGAGATCTG
_ AC_ C

GAM154 MGC13033 5' TCCAGAGCATTCCCTCTA 2199 C CATTG A
TAG AGGA ATGCTCT GA
||| ||| |||||
ATC TCCT TACGAGA CT
T ____ C

GAM154 SLC7A3 5' TCTTCTTCAATTCCCTGCTA 2281 C TGCTCT
TAGCAGGA ATTGA AGA
|||||| ||||| |||

ATCGTCCT TAACT TCT
_ TCT_

GAM154 LOC112609 3' GTCTAGAGTGATCCATCC 2960 CATT _
GGA GAT GCTCTAGAC
||| |||||
CCT CTA TGAGATCTG
AC_ G

GAM154 LOC157349 5' GTCCAAAAGTTAACGTGCCTG 3201 _ T CTA_
C GCAGGACA TTGA GCT GAC
||||||| ||||| |||||
CGTCCTGT AATT TGA CTG
C _ AAAC

GAM154 LOC90625 3' TCCAGATGATGCTCCTGCTA 2662 _ ATGC A
TAGCAGGA CATTG TCT GA
||||||| ||||| |||||
ATCGTCCT GTAGT AGA CT
C ____ C

GAM155 MGAT4B 5' CCGCTACAAGGACAGTG 2360 ATAT TC
CACT GTT TGTAGCGG
||| ||||| |||||
GTGA CAG ACATGCC
____ GA

GAM155 PRKAR2A 3' GCCACAGAACACATACAG 1091 A _ A
CT TATGT TTCTGT GC
||| ||||| |||||
GA ATACA AAGACA CG
C C C

GAM155 SCD 3' GCCACGGAAACATACAGAGGA 1177 A A A
TCC CT TATGTTCTGT GC
||| ||||| |||||
AGG GA ATACAAAGGCA CG
A C C

GAM155 DKFZp761H079 3' GCCACCTGAAACATAAAATGGA 2506 CTA T_ A
TCCA TATGTTTC GT GC
||| ||||| |||||
AGGT ATACAAAG CA CG
AAA TC C

GAM155 KIAA0417 3' GCCATGATGGAAACAGATAGTG 2910 A AGC
CACTAT TGTTCTGT GGC
||| ||||| |||||
GTGATA ACAAAGGTA CCG
G GTA

GAM155 LRBA 3' CCAATTATGGAAACATACAGTG 1327 A C_
GA TCCACT TATGTTCTGTAG GG
||||| ||||| |||||
AGGTGA ATACAAAGGTATT CC
C AA

GAM155 SYAP1 3' GCCACAGAACATAAGT 2279 A A
ACT TATGTTCTGT GC
||| ||||| |||||

TGA ATACAAAGACA CG
 |
GAM155 LOC143188 5' ACAGAAACTATAGCAGA 3264 CA T
 TC CTATA GTTTCTGT
 || ||||| |||||
 AG GATAT CAAAGACA
 AC _
GAM155 LOC157292 3' GCCTCAGAACATAAGTG 3378 A TA
 CACT TATGTTCTG GC
 |||| ||||| |||
 GTGA ATACAAAGAC CG
 TC
 |
GAM156 C18orf1 3' AGTCATTATTGTTGCAGGA 2561 _ T TT
 TCC GCA AT TAATGACT
 ||| ||| ||| |||||
 AGG CGT TG ATTACTGA
 A _ TT
GAM156 CRYZ 3' AAGAGTCATCATAGTAGGAA 866 GCA TTTA
 TTCC TAT ATGACTCTT
 ||| ||| |||||
 AAGG ATA TACTGAGAA
 ATG C__
GAM156 TRPC5 3' GAAGTGTCAAAATATGAGAA 1434 CG TAA T
 TTC CATATT TGAC CTTC
 ||| ||||| |||||
 AAG GTATAAA ACTG GAAG
 A_ _ T
GAM156 DAP13 3' GAAGAACAGTTGAAACATGC 1862 A GAC
 GCAT TTTTAAT TCTTC
 ||| ||||| |||||
 CGTA AAAGTTG AGAAG
 C ACA
GAM156 DKFZP564O0463 3' GAAGAGCCATTACATGC 1481 ATTT A
 GCAT TAATG CTCTTC
 ||| ||||| |||||
 CGTA ATTAC GAGAAG
 C__ C
GAM156 GRID1 3' AAGAACCATAGGAGTGGAA 2822 ATA AC
 TTCCGC TTTTAATG TCTT
 |||| ||||| |||||
 AAGGTG AGGATTAC AGAA
 ___ CA
GAM156 MGC30052 3' AAGACTTTTGAAAATATGCA 2499 C AAT__ C
 GAA TTC GCATATTTT GA TCTT
 ||| ||||| |||||
 AAG CGTATAAAA TT AGAA
 A GTTTT C
GAM156 MGC32104 5' AAGAGTCATGCTGTGATGAA 2494 CG TTTTA
 TTC CATA ATGACTCTT
 ||| |||||

		AAG GTGT	TACTGAGAA			
		TA CG				
GAM156	SCN9A	5' GAAGAGGAATTAAAATACAG	975	GC_	GA	
		GA	TCC ATATTTAAC	CTCTTC		
		AGG TATAAAATTA GAGAAG				
		ACA AG				
GAM156	STK17A	3' AGTCCAATTAAAATATGGAA	1154	GC	—	
		TTCC ATATTTAAC	GACT			
		AAGG TATAAAATTA CTGA				
		— AC				
GAM156	LOC148738	3' AAGAACATCATTAAAGGAAGC	2519	ATA	C	
		GC TTTAACATGA TCTT				
		CG GAAATTACT AGAA				
		AAG A				
GAM157	BLMH	3' GGTGGCCTAACAGAGTTGAGCTC	734	A	CT	
		GAGCTAAC CTTA CCGCC				
		CTCGAGTTG GAAT GGTGG				
		A CC				
GAM157	BLVRB	3' GGCAATAATGTTGAGCC	768	A	C	CTCC
		G GCTCAACA TTA GCC				
		C CGAGTTGT AAT CGG				
		— A AA				
GAM157	DHCR7	3' GGTAGCGTGCACGGTGTTGAAC	821	C	TACTC	C
		T AG TCAACACT CGC ACC				
		TC AGTTGTGG GCG TGG				
		A CACGT A				
GAM157	FGFR1	3' GGTGACAGAGTGAGTGAGACTC	2032	—	AAC	—
		GAG CTC ACTTACTC CGCC				
		CTC GAG TGAGTGAG GTGG				
		A — ACA				
GAM157	FGFR1	3' GGTGACAGAGTGAGTGAGACTC	2034	—	AAC	—
		GAG CTC ACTTACTC CGCC				
		CTC GAG TGAGTGAG GTGG				
		A — ACA				
GAM157	HEM1	3' GGTGACTTGAGCTTGAGCTC	1200	CA	CTC	
		GAGCTCAA CTTA CGCC				
		CTCGAGTT GAGT GTGG				
		C_ TCA				
GAM157	NT5C3	5' GGTGGCGGGGGTGGTGCTGGCT	1689	T A	TA	
		C GAGC CA CACT CTCCGCCACC				

CTCG GT GTGG GGGGCGGTGG
 _ C TG
 GAM157 OTOR 3' GCGGGGAAATGTTGAGCTC 1894 C A
 GAGCTCAACA TT CTCCGC
 ||||| || |||||
 CTCGAGTTGT AA GGGGCG
 A _
 GAM157 PRPSAP2 5' GCAATCAGTAAAACATTGAGCT 954 CAC_ CC_
 C GAGCTCAA TTACT GC
 ||||| ||||| |||
 CTCGAGTT AATGA CG
 ACAA CTAA
 GAM157 C14orf4 5' GGTGGCGGAGGCCCGCAGCTC 2788 CAACACTTA
 GAGCT CTCCGCCACC
 ||||| |||||||||
 CTCGA GAGGCGGTGG
 CCCCCG__
 GAM157 CG012 3' GGCGACAGAGTGAGTGAGACTC 3272 _ AAC __
 GAG CTC ACTTACTC CGCC
 ||| ||| ||||| |||
 CTC GAG TGAGTGAG GCGG
 A ___ ACA
 GAM157 DKFZP434K2235 5' GGTGGCGGGTAACGCCGGACTC 3278 C AACAC T
 GAG TC TTAC CCGCCACC
 ||| ||| ||||| |||||
 CTC AG AATG GGCGGTGG
 _ GCCGC __
 GAM157 FLJ20699 3' GGTGCAAGGATTGAGCTC 1766 CA ACTC
 GAGCTCAA CTT CGCC
 ||||| ||| |||||
 CTCGAGTT GAA GTGG
 AG C __
 GAM157 FLJ23129 3' GGCAACAGGAGAATGTCAAGCC 2088 A CA C A __
 G GCT ACA TT CTCC GCC
 ||| ||| ||| ||||| |||
 C CGA TGT AA GAGG CGG
 _ AC __ ACAA
 GAM157 HSPC065 3' GTGACGGAGTAGAACGCTT 1482 CAACAC C
 GAGCT TTACTCCG CAC
 ||||| ||||| |||||
 TTCGA GATGAGGC GTG
 A ___ A
 GAM157 KIAA0960 3' GGTAAATTAAAGTGTGAAGT 3572 _ CTCC
 GCT CAACACTTA GCC
 ||| ||||| |||
 TGA GTTGTGAAT TGG
 A TTAA
 GAM157 MGC12466 3' GGTAAAGGAGTGTGAACTC 3127 C A CC
 GAG TCAACACTT CT GCC
 ||| ||||| ||| |||

CTC AGTTGTGAG GA TGG
 A _ AA
 GAM157 MGC12904 3' GCAGTGAGTGCTGAGCTC 2184 A CC
 GAGCTCA CACTTACT GC
 ||||| ||||| ||
 CTCGAGT GTGAGTGA CG
 C _
 GAM157 MSTP028 3' GGCAGTAAGTGTCCAGCTC 2224 CA CC
 GAGCT ACACCTACT GCC
 ||||| ||||| |||
 CTCGA TGTGAATGA CGG
 CC _
 GAM157 RAB24 5' TGACGGAGTAGCGAGCT 2397 AACAC C
 AGCTC TTACTCCG CA
 ||||| ||||| ||
 TCGAG GATGAGGC GT
 C ____ A
 GAM157 LOC113828 5' TGAGGAGACGTTGAGCTC 2439 ACTTA GC
 GAGCTAAC CTCC CA
 ||||| |||| ||
 CTCGAGTT GAGG GT
 CA ____ A_
 GAM157 LOC152300 5' GTGGACAGCATTGAGCTC 3169 CA TAC
 GAGCTCAA CT TCCGC
 ||||| || |||||
 CTCGAGTT GA AGGTG
 AC C __
 GAM157 LOC197125 3' GGCAGGTAAACATTGAGCTC 3420 CAC CC
 GAGCTCAA TTACT GCC
 ||||| ||||| |||
 CTCGAGTT AATGG CGG
 AC_ A_
 GAM157 LOC219848 3' GGTGACAGAGTAGGTGCTC 3528 TCAAC __
 GAGC ACTTACTC CGCC
 ||||| ||||| |||||
 CTCG TGGATGAG GTGG
 ACA
 GAM157 LOC51157 5' GGTGGCGGGGTTTGAGAGCT 1671 AA CTT
 C GAGCTC CA ACTCCGCCACC
 ||||| || |||||
 CTCGAG GT TGGGGCGGTGG
 AC TT_
 GAM157 LOC92270 5' GGTGACAGAGTAGGTGAGACTC 2828 _ AAC __
 GAG CTC ACTTACTC CGCC
 ||||| ||||| |||||
 CTC GAG TGAGTGAG GTGG
 A ____ ACA
 GAM158 B3GALT3 3' GCTGGTGTAAACAAACCTACTA 1057 A C G_
 CA TGTGGTAG TTTGTT TATA AGC
 ||||| ||||| |||| |

ACATCATC AAACAA ATGT TCG
C _ GG

GAM158 KIAA1985 5' GCTCTGTATTAAAACAAATCCA 2066 A C
CCA TGGT GATTGTT TATAGAGC
||||||| |||||
ACCA CTAAACAA ATGTCTCG
C AATT

GAM158 MCM10 3' CTATGCAAATTACCACA 1835 A TCT
TGTGGT GATTGT ATAG
||||||| |||||
ACACCA TTAAACG TATC

GAM158 LOC149707 5' CTCCACAAACATCTACCA 3137 _ TCTATA
TGGTAGAT TTGT GAG
||||||| |||||
ACCATCTA AACAA CTC
C C_

GAM158 LOC200227 5' CTCCACAAACATCTACCA 3446 _ TCTATA
TGGTAGAT TTGT GAG
||||||| |||||
ACCATCTA AACAA CTC
C C_

GAM158 LOC255718 5' GCTCTATAGAACATGTCTAC 3741 T
GTAGAT TGGTCTATAGAGC
|||||||
CATCTG ACAAGATATCTCG
T

GAM159 DSG3 3' TTAAATGTTGGGTTCATAC 873 C_
GTAT ATTAAACATTAA
||||| |||||||
CATATGGTTGTAAATT
CT

GAM159 LPIN1 3' AAATGATAATGATACTG 2791 TAAA
CAGTATCATT CATT
||||||| |||||
GTCATAGTAA GTAAA
TA_

GAM159 TRPM1 3' AAATGAAAGTGATGATACTGT 928 TAAA_
ACAGTATCATT CATT
||||||| |||||
TGTCAAGTAG GTAAA
TGAAA

GAM159 DEPP 3' GTTAAATGTTTCTGTCTTCTG 1347 TAT_ TTT
TT AACAG CA AAACATTAAAC
||||| || |||||||
TTGTC GT TTTGTAAATTG
TTCT CT_

GAM159 FLJ20668 3' TTAAATGGACCATGATACT 1764 TTAAA
AGTATCAT CATTAA
||||||| |||||

		TCATAGTA	GTAAATT		
		CCAG_			
GAM159	KIAA1524	5' TAAATGTTAGAACCTACTGT	2975	TCA	
		ACAGTA	TTTAAACATTTA		
		TGTCAT	AGATTTGTAAT		
		CCA			
GAM159	PRO1617	5' AAATCAGTGAATGGTACTG	1850	AAC	
		CAGTATCATTAA	ATTT		
		GTCATGGTAAGT	TAAA		
		GAC			
GAM159	SDF1	3' GTTAAATGTGATGAATACTGT	3502	_ TAA	
		ACAGTAT CATT	ACATTTAAC		
		TGTCATA GTAG	TGTAAATTG		
		A	_		
GAM159	LOC130074	3' GTTAGGTGTCAAATTGATACT	3043	TTTAA	
		AGTATCA	ACATTTAAC		
		TCATAGT	TGTGGATTG		
		TAAC_			
GAM159	LOC146952	5' TAAATGTAATTTATGTACTGT	3287	T TT _	
		T	AACAGTA CAT AA ACATTTA		
		TTGTCAT GTA TT	TGTAAAT		
		_ TT AA			
GAM159	LOC157983	3' TTGCATGTTAAATGATACT	3208	A T	
		AGTATCATTAA CAT TAA			
		TCATAGTAAATT	GTA GTT		
		_ C			
GAM159	LOC203289	3' TTGCATGTTAAATGATACT	3463	A T	
		AGTATCATTAA CAT TAA			
		TCATAGTAAATT	GTA GTT		
		_ C			
GAM159	LOC256544	3' TTGCATGTTAAATGATACT	3695	A T	
		AGTATCATTAA CAT TAA			
		TCATAGTAAATT	GTA GTT		
		_ C			
GAM160	APPL	3' AGAACAGAGATTTACAGT	1405	A	CA
		ATTG TAAAATCTC	TTCT		
		TGAC ATTTAGAG	AAGA		
		_ AC			
GAM160	F8	3' AATGGAGAGAATACAATA	708	A AAA	
		TATTG TA	TCTCCATT		

ATAAC AT AGAGGTA
AAG
GAM160 RAB6A 3' AGAATGGAAATAAACTCAATA 966 TAAA_ C
TTA TAATATTGA AT TCCATTCT
|||||| |||||||
ATTATAACT TA AGGTAAGA
CAAAA A

GAM160 RNF14 3' AGAATGGAAATTTATAATAT 1097 ATA C
ATATTG AAAT TCCATTCT
||||| |||||
TATAAT TTTA AGGTAAGA
A_ A

GAM160 SART2 3' AGAATTGGGTTTATTAAATATT 1443 CC
A TAATATTGATAAAATCT ATTCT
|||||||||| |||||
ATTATAATTATTTGGG TAAGA
T_

GAM160 EEA1 3' AATGGTTTTGTTTAACAATA 1035 A CT__
TTA TAATATTG TAAAAT CCATT
||||| |||||
ATTATAAC ATTTTG GGTAA
A TTTT

GAM160 FLJ10980 3' AGAATGGAGTGTACCAAATTA 2697 A A AAAT
TAAT TTG TA CTCCATTCT
||||| |||||
ATTA AAC AT GAGGTAAGA
- C GT__

GAM160 FLJ22794 3' AATGGTCATCTTATCAATA 3532 A CT
TATTGATAA AT CCATT
|||||| |||||
ATAACTATT TA GGTAA
C CT

GAM160 KIAA1328 3' AGAATGGAGCCCACATAATATTA 2601 ATAAAAT
TAATATTG CTCCATTCT
||||| |||||
ATTATAAT GAGGTAAGA
CACCC__

GAM160 PRO0902 3' AATGGAGATCAATTAA 2357 T TAAAA
TAA ATTGA TCTCCATT
||||| |||||
ATT TAACT AGAGGTAA
T __

GAM160 RASGRP4 3' AGAACAGGGATTTCTATCAATG 2348 - CA
T ATATTGATA AAATCTC TTCT
|||||| |||||
TGTAACTAT TTTAGGG AAGA
C AC

GAM160 WBP4 3' AGAATGGAGACTTATACA 1363 _ AA
TG ATAA TCTCCATTCT
|| |||||

AC TATT AGAGGTAAGA
A C_
GAM160 LOC116150 3' AGAATGGAGCAGTTAATA 2443 TAAAAT
TATTGA CTCCATTCT
|||||| |||||||
ATAATT GAGGTAAGA
TGAC__

GAM160 LOC164200 5' AATGAGGTTGTTATCAATA 3248 _ C
TATTGATAA AATCTC ATT
|||||| ||||| III
ATAACTATT TTGGAG TAA
G _

GAM160 LOC51320 3' AGAATGATAAATTATCAATAT 1702 AATCTC
ATATTGATAA CATTCT
||||||| |||||
TATAACTATT GTAAGA
AAATA_

GAM161 SELPLG 3' CCAAACAGGAAGTGGACATTCT 2539 A CG C
AGAAT TCCAT TTTG TTGG
||||||| ||||| III
TCTTA AGGTG GGAC AACC
C AA A

GAM161 FLJ21144 3' CCAAAACATAAACATAAAATAT 2007 CC C C__
TCTCA TGAGAATAT AT GTTTG TTGG
||||||| ||||| III
ACTCTTATA TA CAAAT AACC
AA A ACAA

GAM161 KIAA0676 3' CAAAGTGATGGAACCCCTCA 1603 AATA _
TGAG TCCATCG TTTG
||| ||||| III
ACTC AGGTAGT AAAC
CCA_ G

GAM161 KIAA1393 3' CAAGTGATGAATATGCTCA 2935 A C GTTT
TGAG ATAT CATC GCTTG
||||||| |||||
ACTC TATA GTAG TGAAC
G A __

GAM161 UBN1 3' CCAAGTCACAGATAGACATTCC 1716 A A C GTTT
A TG GAAT TC ATC GCTTGG
||| ||||| III
AC CTTA AG TAG TGAACC
_ C A ACAC

GAM162 CELSR3 3' AGAACTGAAGACTTTAA 824 TAT
TTAAAGTCTTC TTCT
||||||| |||||
AATTCAGAAG AAGA
TC_

GAM162 GPR85 3' TAGAAGTTGAAGACTTTAA 1868 T_
TTAAAGTCTTC ATTTCTA
||||||| III

AATTCAGAAG TGAAGAT
TT
GAM162 ITGAV 3' TAGAAATGGAGAGTTAATA 908 G T
TATTAAA TCT CTATTCTA
|||||| |||||||||
ATAATT AGA GGTAAAGAT
G _
GAM162 MAPRE2 3' TAGAAGTGAAGACCTTA 1487 A T
TAA GTCTTC ATTCTA
||| ||||| |||||
ATT CAGAAG TGAAGAT
C _
GAM162 PAX6 5' AGGGGGAAGACTTAA 837 AT
TTAAAGTCTTCT TTCT
||||||||| |||||
AATTCAGAAGG GGGA

GAM162 PAX6 5' AGGGGGAAGACTTAA 726 AT
TTAAAGTCTTCT TTCT
||||||||| |||||
AATTCAGAAGG GGGA

GAM162 SLC24A1 3' TAGAAATAGAACAGCTTAATA 1150 A C_
TATTAA GT TTCTATTCTA
||||| || |||||||||
ATAATT CG AAGATAAAGAT
_ AC
GAM162 SLC31A1 3' TAGAAATAGATATTTTAA 864 TCT
TTAAAG TCTATTCTA
||||| |||||
AATTTT AGATAAAGAT
TAT
GAM162 SLC4A7 3' TAGAACAAATAGAAACTTAAATA 1043 C __
TATTAAAGT TTCTATT TCTA
|||||| |||||
ATAATTCA AAGATAA AGAT
_ CA
GAM162 ZNF22 3' TAGAAATAGAGATGCTTTA 3527 C_
TAAAGT TTCTATTCTA
||||| |||||||
ATTCG GAGATAAAGAT
TA
GAM162 ARGBP2 5' GGAAAAGTAGAAGACTTAAATA 1041 TA_
TATTAAAGTCTTC TTTCT
||||||||| |||||
ATAATTCAAGG AAAGG
TCA
GAM162 C20orf7 3' AGAAATGGATAGCTTTAA 2056 CT
TTAAAGT TCTATTCT
||||| |||||||||

AATTCG AGGTAAAGA
AT
GAM162 FLJ12704 3' AGAACGCTGGACTTTAATG 2125 TCTAT
TATTAAAGTCT TTCT
||||||| |||||
GTAATTCAGG AAGA
TCGC_

GAM162 FLJ13194 3' TAGAAATGTTCTCAGACTTTAA 2141 TC__
TTAAAGTCT TATTTCTA
||||||| |||||
AATTCAGA GTAAAGAT
CTCTT

GAM162 FLJ20005 3' AGAAAAAGACTTTAA 1731 CTA
TTAAAGTCTT TTTCT
||||||| |||||
AATTCAGAA AAAGA

GAM162 FLJ20417 5' TAGAAATAAACAAAGGCTTA 1754 C__
TAAAGTCTT TATTTCTA
||||||| |||||
ATTCGGAA ATAAAGAT
CAA

GAM162 KIAA0712 3' AGAAATTAAGACTTTAA 1529 CT
TTAAAGTCTT ATTTCT
||||||| |||||
AATTCAGAA TAAAGA
T_

GAM162 KIAA0750 5' AGAAAGAGAAGACTTTAA 1510 A
TTAAAGTCTTCT TTTCT
||||||| |||||
AATTCAGAAGA AAAGA
G

GAM162 KIAA1128 3' TAGAGTATTCAAGACTTGATA 2821 TCTAT
TATTAAAGTCT TTCTA
||||||| |||||
ATAGTTCAAGA GAGAT
CTTAT

GAM162 KIAA1281 3' TAGAAGAGAGAGACTTTAA 3461 _ A
TTAAAGTCT TCT TTTCTA
||||||| |||||
AATTCAGA AGA GAAGAT
G _

GAM162 KIAA1841 3' AGAGAACAGACTTTAATA 3151 TCTA
TATTAAAGTCT TTTCT
||||||| |||||
ATAATTCAGA AGAGA
CA__

GAM162 Rab11-FIP2 3' AGATGTAGAACTTTAATA 1580 CT T
TATTAAAGT TCTAT TCT
||||||| ||||| |||

ATAATTTCA AGATG AGA
 — T
GAM162 RABEX5 3' TAGTCGATGGAAGACTTAA 1504 T_
 TTAAAGTCTTCTATT CTA
 ||||||| |||
 AATTCAGAAGGTAG GAT
 CT
GAM162 SGKL 3' TAGAGGTAAGACTTTAATA 1438 TC
 TATTAAAGTCT TATTCTA
 ||||||| |||||
 ATAATTCAGA ATGGAGAT

GAM162 SYTL3 3' TAGAAAATGCCAGATTTAAT 3183 T_ _
 A TATTAAAGTCT CTATTT CTA
 ||||||| ||||| |||
 ATAATTTAGA GGTAAA GAT
 CC A
GAM162 TTY7 3' GAAAAAGACTTTGATA 2220 CTA
 TATTAAAGTCTT TTTC
 ||||||| |||||
 ATAGTTCAGAA AAAG

GAM162 LOC113612 3' TAGAAATAGTTGACTTAATA 2968 A TT
 TATTAA GTC CTATTTCTA
 ||||||| |||||
 ATAATT CAG GATAAAGAT
 — TT
GAM162 LOC121457 3' TAGAAATAGTTCTTAA 2993 TCTT
 TTAAAG CTATTTCTA
 ||||| |||||
 AATTC GATAAAGAT
 TT_ _
GAM162 LOC133491 3' TAGAATTGGGACTTAGTA 3015 TT T
 TATTAAAGTC CTA TTCTA
 ||||||| |||||
 ATGATTCAG GGT AAGAT
 — T
GAM162 LOC143282 3' AGAAATAGGCGTACTTAA 3054 CT_ _
 TTAAAGT TCTATTTCT
 ||||||| |||||
 AATTTCA GGATAAAGA
 TGC
GAM162 LOC143524 3' TAGAGAAGGGAAAGACTTTA 3059 — A_ _
 TAAAGTCTT CT TTTCTA
 ||||||| |||||
 ATTTCAGAA GG AGAGAT
 A GA
GAM162 LOC144559 5' TAGAGAAGGGAAAGACTTTA 3066 — A_ _
 TAAAGTCTT CT TTTCTA
 ||||||| |||||

ATTCAGAA GG AGAGAT
A GA

GAM162 LOC153222 3' TAGAAATGGTTGACTTTAATG 3180 CTT_

TATTAAAGT CTATTCTA
||||||| |||||
GTAATTCA GGTAAAGAT
TGTT

GAM162 LOC219623 5' AGAAAAGAAGACTTCAAT 3525 A A

ATT AAGTCTTCT TTTCT
||| ||||| |||||
TAA TTCAGAAGA AAAGA
C -

GAM162 LOC219918 5' TAGAGAAGGGAAAGACTTTA 3530 _ A_

TAAAGTCTT CT TTTCTA
||||||| || |||||
ATTCAGAA GG AGAGAT
A GA

GAM162 LOC220071 5' TAGAGAAGGGAAAGACTTTA 3602 _ A_

TAAAGTCTT CT TTTCTA
||||||| || |||||
ATTCAGAA GG AGAGAT
A GA

GAM162 LOC254431 3' AGGTAAAGACTTTAGTA 3717 C

TATTAAAGTCTT TATT
||||||| |||||
ATGATTCAGAA ATGGA

GAM162 LOC255515 3' TAGAGAAGGGAAAGACTTTA 3688 _ A_

TAAAGTCTT CT TTTCTA
||||||| || |||||
ATTCAGAA GG AGAGAT
A GA

GAM162 LOC56959 5' ATAGAACAGAGGGACGTGACTT 3219 _____ A III

TGATA TAAAGTC TTCT TTTCTA T
||||||| ||||| || |
GTTTCAG GAGA AAAGAT A
TGCAG C III

GAM162 LOC90906 3' TAGAGAAGGGAAAGACTTTA 2685 _ A_

TAAAGTCTT CT TTTCTA
||||||| || |||||
ATTCAGAA GG AGAGAT
A GA

GAM163 ENAM 5' TATAGACCATTAAGAATA 2216 TC C C

TATTCTTA ATG GTC ATA
||||||| ||||| |||
ATAAGAAT TAC CAG TAT
— — A

GAM163 EFNA5 3' CTATGGACAAGGAAGAATAGT 876 ATCATGC

ATTATTCTT GTCCATAG
||||||| |||||

TGATAAGAA CAGGTATC
 GGAA_____

GAM163 LOC159199 5' CTATGGACAAGCCAAGAA 3236 ATCAT __
 TTCTT GC GTCCATAG
 ||||| |||||||
 AAGAA CG CAGGTATC
 C____ AA

GAM163 LOC90321 3' ATGGAGGTGGACAGAGAATAA 2630 ATCA G
 TTATTCTT TGC TCCAT
 ||||||| |||||
 AATAAGAG GTG AGGTA
 ACAG G

GAM164 KRAS2 3' AATATTATATTCTATAAA 1166 GAT
 AA TTTTA AAAAAATATAATATT
 ||||| |||||||
 AAAAAAT TTTTTATATTATAA
 ATC

GAM164 KRAS2 3' AATATTATATTCTATAAA 2331 GAT
 AA TTTTA AAAAAATATAATATT
 ||||| |||||||
 AAAAAAT TTTTTATATTATAA
 ATC

GAM165 APXL 3' AGGACTTTCTCTTCTACAC 843 TATA
 GTGTGGGA AAAGTCCT
 ||||| |||||
 CACATCTT TTTCAGGA
 CTC_

GAM165 ASTN 3' AGGTGCTTATATCCCACCAAC 2852 __ AA __
 GT GTGGGATATA AGT CCT
 || ||||||| |||||
 CA CACCCTATAT TCG GGA
 AC __ T

GAM165 GALK2 3' AGGACTTTCTGTGCCACA 891 G TA
 TGTGG ATA AAAGTCCT
 ||||| |||||
 ACACC TGT TTTCAGGA
 G C_

GAM165 MCL1 3' AGGACTTTATACCTGT 1970 TG A
 G GG TATAAAAGTCCT
 | || |||||||
 T CC ATATTTCAGGA
 GT _

GAM165 PACE4 5' AGGACTTTACTACCATGGTA 2434 TG ATA
 TACCGTG GG TAAAAGTCCT
 ||||| || |||||||
 ATGGTAC TC ATTTTCAGGA
 CA __

GAM165 PODXL 3' AGGACTTTATGGGCTCGGC 1206 G A_
 GT TGGG TATAAAAGTCCT
 || |||| |||||||

CG GCTC GTATTTCAGGA
 — GG
GAM165 TNFSF8 3' GGACTCTCACACAGG 811 — TATAAA
 CC GTGTGGGA AGTCC
 || ||||| |||||
 GG CACACTCT TCAGG
 A C _____
GAM165 ATP1B4 3' GACCTCTATATCCTGGTG 1401 GTGT AAA
 TACC GGGATATA GTC
 ||| ||||| |||
 GTGG TCCTATAT CAG
 _____ CTC
GAM165 CDC14A 3' AGGACCCTTATAGGTACTCACA 1047 A____ AA
 TGTGGG TATAA GTCCT
 ||||| ||||| |||||
 ACACTC ATATT CAGGA
 ATGG CC
GAM165 DKFZP434C171 3' GGACTCTTATGTCACTGCA 1641 TG_ A
 TG G GATATAA AGTCC
 || | ||||| |||||
 AC C CTGTATT TCAGG
 GTA C
GAM165 EMR2 3' AGGACTTTCATACCGACAAC 1453 _ G A A
 GT GT GG TAT AAAGTCCT
 || ||| ||| |||||
 CA CA CC ATA TTTCAGGA
 A G _ C
GAM165 FYCO1 3' AGGACTTTGTGGGCCACAAG 2063 CG GA_
 TA TAC TGTGG TATAAAAGTCCT
 ||| ||||| |||||||
 ATG ACACC GTGTTTCAGGA
 A_ GGG
GAM165 GGA2 3' AGGACTTCCCCTCCACACAC 2448 _ ATA
 GTGTG GGAT AAAGTCCT
 ||||| |||||
 CACAC CCTG TTTCAGGA
 A CCC
GAM165 GGA2 3' AGGACTTCCCCTCCACACAC 1604 _ ATA
 GTGTG GGAT AAAGTCCT
 ||||| |||||
 CACAC CCTG TTTCAGGA
 A CCC
GAM165 ICT1 3' AGGACTTTCACACCATAAGG 834 G GATATA
 CC TGTGG AAAGTCCT
 || ||||| |||||
 GG ATACC TTTCAGGA
 A ACAC_____
GAM165 ZFP100 3' AGGACTCCCTATCCCACA 2877 TAAA
 TGTGGGATA AGTCCT
 ||||| |||||

ACACCCCTAT TCAGGA
CCC_

GAM165 LOC64744 3' GACTTTATGAAGATCCCACAC 2607 ATA_____
GTGTGGGAT AAAGTC
|||||| |||||
CACACCCTA TTTCAG
GAAGTA

GAM166 MEF-2 3' TGCTATTAAATAGTAAAC 2688 T ATAAC
GTTTACTATTTA TG GCA
||||||| || |||
CAAATGATAAAAT AT CGT
T _____

GAM166 LOC146184 5' TATCAATAAAATAGCAAAC 3281 A
GTTT CTATTTATTGATA
||| |||||||||
CAAA GATAAATAACTAT
C

GAM167 CDH5 3' CAGTGATGACTATTCTCAAATG 858 G A ATTC
CAT TGA AATAGTCAT CTG
||| ||| ||||| |||
GTA ACT TTATCAGTA GAC
A C GT_

GAM167 LNK 3' CAGAGAACACTATTTTACAT 1216 CATA _
ATGTGAAAATAGT TTC CTG
||||||| ||| |||
TACATTTTATCA AAG GAC
C__ A

GAM167 NPR2 3' CAGAAATGGACATTTCATATG 786 A A C
CATGTGAAAAT GTC TATT CTG
||||||| ||| |||||
GTATACTTTA CAG GTAA GAC
- - A

GAM167 CLLD8 3' GCAGGAACACAATTAGGATATT 2219 G A _____ III
TTCATA AAATA TC TA TTCCTG C
||||||| ||| ||||| |
TTTAT AG AT AAGGAC G
_ G TAACAC III

GAM167 FLJ22301 3' CAGGTGAGGGACCATTTCAC 2094 A ATATT
GTGAAAAT GTC CCTG
||||||| |||
CACTTTA CAG GGAC
C GAGT_

GAM167 FLJ22833 3' AGGGAACACCAGTTTCACATG 2016 AGTCATA
CATGTGAAAAT TTCCT
||||||| |||||
GTACACTTTG AGGGA
ACCACA_

GAM167 KIAA0125 3' GAAATGACATTCACATG 1548 AATA A
CATGTGAA GTCAT TTC
||||||| ||||| |||

GTACACTT CAGTA AAG
 A__ _
 GAM167 KIAA0125 3' GAAATGACATTCACATG 1549 AATA A
 CATGTGAA GTCAT TTC
 ||||| ||||| |||||
 GTACACTT CAGTA AAG
 A__ _
 GAM167 KIAA0125 3' GAAATGACATTCACATG 1550 AATA A
 CATGTGAA GTCAT TTC
 ||||| ||||| |||||
 GTACACTT CAGTA AAG
 A__ _
 GAM167 KIAA0125 3' GAAATGACATTCACATG 1551 AATA A
 CATGTGAA GTCAT TTC
 ||||| ||||| |||||
 GTACACTT CAGTA AAG
 A__ _
 GAM167 KIAA0125 3' GAAATGACATTCACATG 1552 AATA A
 CATGTGAA GTCAT TTC
 ||||| ||||| |||||
 GTACACTT CAGTA AAG
 A__ _
 GAM167 KIAA1199 3' CAGAAATCTGCTGCATTCACA 2951 A_ T T C
 TG CATGTGAAA TAG CA ATT CTG
 ||||| ||||| |||||
 GTACACTTT GTC GT TAA GAC
 AC _ C A
 GAM167 LANCL2 3' ATATGACTTCTTCACAT 1860 AAT
 ATGTGAA AGTCATAT
 ||||| |||||||
 TACACTT TCAGTATA
 CT_
 GAM167 SEZ6 3' CAGGAGTACCTTCTCCACATG 2997 AAAAT TCA
 CATGTG AG TATTCCTG
 ||||| |||||
 GTACAC TC ATGAGGAC
 CTCTT C_
 GAM167 SNX10 3' AGGAAGATATTTTCAGAT 1442 G GTCATA
 AT TGAAAATA TTCCT
 ||||| |||||
 TA ACTTTTAT AAGGA
 G AG__
 GAM167 TNFRSF21 3' AGTGTGACTTTCCCACA 1502 AA T
 TGTG AA AGTCATATT
 ||||| |||||||
 ACAC TT TCAGTGTGA
 CC T
 GAM167 TTTY11 5' CAGGAATAGTCAGCATTCA 2221 ATAGTCA
 T ATGTGAAA TATTCCTG
 ||||| |||||_

TACACTT ATAAGGAC
ACGACTG
GAM167 LOC143879 3' GAATACTTAGTATTTCACATG 3063 GTCA_
CATGTGAAAATA TATTG
||||||| |||||
GTACACTTTAT ATAAG
GATTC
GAM167 LOC145439 5' CAGGAATACAGAGATTCGCAT 3078 ATAGTCA
G CATGTGAAA TATTCCCTG
||||||| |||||
GTACGCTTT ATAAGGAC
AGAGAC_
GAM167 LOC147353 3' CAGGAATAGAACTTGCACATG 3293 AAAAT CA
CATGTG AGT TATTCCCTG
||||| |||||
GTACAC TCA ATAAGGAC
GT__ AG
GAM167 LOC221584 5' GAATATGGGCTACTTCATATG 3620 AA _
CATGTGAA TAGTC ATATTC
||||| |||||
GTATACTT ATCGG TATAAG
C_ G
GAM167 LOC257054 3' CAGGAATGTGTCATTCACACA 3682 A_ AGT
TGTG AAAT CATATTCCCTG
||| |||||
ACAC TTTA GTGTAAGGAC
CC CT_
GAM167 LOC91145 5' CAGGAATGTACACTTACAT 2713 AATA C
ATGTGAA GT ATATTCCCTG
||||| |||||
TACATT CA TGTAAGGAC
CA__
GAM167 LOC93297 3' GAATATGTTGTGTATGTTCAC 2929 A____ T
ATG CATGTGAA ATAG CATATTC
||||| |||||
GTACACTT TGTT GTATAAG
GTATG T
GAM168 BACH2 3' AAGCTGTTCGTTGTATCA 1961 A _
TGA TACAACGAATA CTT
||| |||||
ACT ATGTTGCTTGT GAA
C
GAM168 GAN 3' TGAAGTATAGGGATGTATTTA 1974 ACGA_
TGAATACA ATACTTCA
||||| |||||
ATTTATGT TATGAAGT
AGGGA
GAM168 MHC2TA 3' TGAAGCATTACTTGTGTTCA 720 C__ A
TGAATACAA GAAT CTTCA
||||| |||||

ACTTGTGTT TTTA GAAGT
TCA C
GAM168 MTM1 3' TGAAGTATTGTGTTA 723 ACGA
TGAATACA ATACCTCA
|||||| |||||
ATTTGTGT TATGAAGT

GAM168 AWP1 3' TGAAGTAATTGTGCTGTATTAA 1872 — A
TGAATACA ACGA TACCTCA
|||||| |||||
ATTTATGT TGTT ATGAAGT
CG A

GAM168 BLCAP 3' TGAAGTATGGTGTGTTCA 1324 ACGA
TGAATACA ATACCTCA
|||||| |||||
ACTTGTGT TATGAAGT
GG_

GAM168 C5orf3 3' TGAAGTATTCAAGGTTCTCA 1859 AT AAC
TGA AC GAATACTTC
||| || |||||
ACT TG CTTATGAAGT
CT GA_

GAM168 CRK7 3' AAGCTGTCCGTTGTATTCA 1690 A —
GAATACAACG ATA CTT
|||||| ||| III
CTTATGTTGC TGT GAA
C C

GAM168 FLJ11101 3' TGAAGTTTGATTGTATTAA 1814 — T
TGAATACAA CGAA ACTTCA
|||||| |||||
ATTTATGTT GTTT TGAAGT
A —

GAM168 FLJ12876 3' TGAAGTGTAGATCATTGTATTCA 2004 C —
A TGAATACAA GA ATACCTCA
|||||| || |||||
ACTTATGTT CT TGTGAAGT
A AGA

GAM168 KLF12 3' TGAAGTGTAGATTGTATTAA 1374 CGA_—
TGAATACAA ATACCTCA
|||||| |||||
ATTTATGTT TGTGAAGT
TAGA

GAM168 MGC4734 3' AAGTGTCTGTATTCA 2513 AC
TGAATACA GAATACTT
|||||| |||||
ACTTATGT CTTGTGAA

GAM168 PRO2000 3' GAGTATTCTTATATTCA 1469 C C
TGAATA AA GAATACTT
|||||| || |||||

ACTTAT TT CTTATGAG
A T
GAM168 RAB33B 3' TGAAGTGTTCACATTCA 2191 ACAAC
TGAAT GAATACTTCA
||||| |||||
ACTTA CTTGTGAAGT
CA__
GAM168 RGS12 3' TGAAGCCCGCTGTGTTCA 972 A AATA
TGAATACA CG CTTCA
|||||| || ||||
ACTTGTGT GC GAAGT
C CC__
GAM168 ZNF387 3' TGAAGTATGTTGTATTCA 1522 CGA
TGAATACAA ATACTTCA
||||||| |||||
ATTATGTT TATGAAGT
TG__
GAM168 LOC158381 3' TGAAGTAATTGTGCTGTATTCA 2905 __ A
TGAATACA ACGA TACTTCA
||||||| |||||
ATTATGT TGTT ATGAAGT
CG A
GAM168 LOC196411 3' AAGTTCTTGTTCA 3412 C T
TGAATACAA GAA ACTT
||||||| |||||
ACTTGTGTT CTT TGAA
T __
GAM168 LOC51186 5' GAAGTCATTGTATTCA 1680 C ATA
TGAATACAA GA CTTC
||||||| || ||||
ACTTATGTT CT GAAG
A __
GAM169 RDX 3' TAGAGATTAACCAATTCA 971 G
TAATTGGTTAACATC TTTA
||||||||| |||||
ATTAACCAAATTAG AGAT

GAM169 TRPC3 3' AATAATGTTGAAACCAACTGA 1010 A AAT
TTA TTGGTTT CGTTTATT
||||||| |||||
AGT AACCAAA GTAAATAA
C GTT
GAM169 LOC131000 3' TAATAAACGATTAATGAA 3038 G T
TT GTT AATCGTTATTAA
|| ||| |||||
AA TAA TTAGCAAATAAT
G T
GAM170 ACTA2 3' TGTGAATGTCCGTGGAA 839 AG CTAAT _
TTCCACAG CA TTC CA
||||||| || ||||

			AAGGTGTC	GT	AAG GT		
			CT	_____	T		
GAM170	ASPH	3'	GAAATAATTGCTCTGTTGAA	2251	C	CTA	
			TTC	ACAGAGCA	ATTTC		
			AAG	TGTCTCGT	TAAAG		
			T	_____	TAA		
GAM170	ASPH	3'	GAAATAATTGCTCTGTTGAA	2253	C	CTA	
			TTC	ACAGAGCA	ATTTC		
			AAG	TGTCTCGT	TAAAG		
			T	_____	TAA		
GAM170	BRCA1	3'	TGGAAGTTAGCACTCTAGGGAA	1392	AC	CA	
			TTCC	AGAG	CTAATTCCA		
			AAGG	TCTC	GATTGAAGGT		
			GA	AC			
GAM170	CDC42	3'	GAAGACAGACATCTGTGGAA	856	GCA	AA	
			TTCCACAGA	CT	TTTC		
			AAGGTGTCT	GA	GAAG		
			ACA	CA			
GAM170	CLASP1	3'	TTGGAAATAAAGAAGTGCTCTG	2718	A	_____	
			CAGAGCACT	ATTTCAA			
			GTCTCGTGA	_____	TAAAGGTT		
			AGAAA				
GAM170	CPNE3	3'	GAAATTAGTGTGGGAA	1069	ACAGA		
			TTCC	GCAC	TAATTTC		
			AAGG	TGTGATTAAAG			
			GG	_____			
GAM170	DACH	3'	TTGGAAATTTTCTATGG	2388	C	CACT	
			CCA	AGAG	AATTCAA		
			GGT	TCTT	TTAAAGGTT		
			A	T	_____		
GAM170	ECM2	5'	GAAATTGGCTGGTGGAA	823	AG	AC	
			TTCCAC	AGC	TAATTTC		
			AAGGTG	TCG	GTTAAAG		
			G	_____			
GAM170	EDNRA	3'	TAGACTGTCTCTGTGGAA	2681	-	-	
			TTCCACAGAG	CA	CTA		
			AAGGTGTCTC	GT	GAT		
			T	CA			
GAM170	ENC1	3'	TTGGAAATCAGTTGTG	1045	GAGC	A	
			CACA	ACT	ATTCAA		

GTGT TGA TAAAGGTT
 _____ C
 GAM170 FANCF 3' TTGGTGGCTGCCCTGTGGAA 1999 A _ ATTT
 TTCCACAG GCA CTA CCAA
 ||||| ||| ||| |||
 AAGGTGTC CGT GGT GGTT
 C C _____

GAM170 FCAR 3' GAAAACTTAGTCTGTGGAG 2405 GCA __
 TTCCACAGA CTAA TTTC
 ||||| ||| |||
 GAGGTGTCT GATT AAAG
 _____ CA

GAM170 FCAR 3' GAAAACTTAGTCTGTGGAG 2407 GCA __
 TTCCACAGA CTAA TTTC
 ||||| ||| |||
 GAGGTGTCT GATT AAAG
 _____ CA

GAM170 GAS7 3' TTGGAAATATACAGCTCTGTG 1259 ACTA_
 CACAGAGC ATTTCAA
 ||||| |||||||
 GTGTCTCG TAAAGGTT
 ACATA

GAM170 KCNJ5 5' GAAATTAATCTCTGGGGAA 784 A CAC
 TTCC CAGAG TAATTTC
 ||||| |||||
 AAGG GTCTC ATTAAAG
 G TA_

GAM170 MEF2A 3' GAGAAAATGCTTGAGAA 1228 C CTAA
 TTC ACAGAGCA TTTC
 ||||| |||
 AAG TGTTTCGT AGAG
 A AAA_

GAM170 MIR16 3' GGAAACTAAACTCTGTGGAA 1704 CAC A
 TTCCACAGAG TA TTTCC
 ||||| |||
 AAGGTGTCTC AT AAAGG
 AA_ C

GAM170 P4HB 3' TTGAAAATTCCGTCTGTGGGA 787 G ACT C
 TTCCACAGA C AATTTC CAA
 ||||| | |||||
 AGGGTGTCT G TTAAA GTT
 CC A

GAM170 RAF1 3' TTGGAAATCAGCTTCTGGAGGA 3168 A_ CA A
 A TTCC CAGAG CT ATTTCAA
 ||||| ||| |||||||
 AAGG GTCTT GA TAAAGGTT
 AG C_ C

GAM170 RPS6KA5 3' TTGGAAATTTCTGTGGAA 1153 C CACT
 TTC ACAGAG AATTTC
 ||||| |||||||

AAG TGTCTT TTAAAGGTT
 T T
 GAM170 TBL1X 3' GAAATGGCCTGTGGAA 1233 A ACTA
 TTCCACAG GC ATTTC
 ||||| || |||||
 AAGGTGTC CG TAAAG
 _ G_

GAM170 ARHGAP10 5' GGAGCCTGCTGTGGAA 1926 G CTAAT
 TTCCACA AGCA TTCC
 ||||| ||||| |||||
 AAGGTGT TCGT GAGG
 _ CC_

GAM170 ATP9A 3' TTGGAAATCAGTCTGT 2619 GCA A
 ACAGA CT ATTTCCAA
 ||||| |||||||||
 TGTCT GA TAAAGGTT
 _ C

GAM170 Di-Ras2 3' TTGGAAATATGTCCTGGAA 1725 CA CTA
 TTCCA GAGCA ATTTCCAA
 ||||| ||||| |||||
 AAGGT CTTGT TAAAGGTT
 C_ A_

GAM170 FHOD2 3' GAGAACGATGCTCTGTGAGA 2981 _ CTAA
 TC CACAGAGCA TTTC
 ||||||||| |||||
 AG GTGTCTCGT AGAG
 A AGCA

GAM170 FLJ10704 3' TTGGAAATTAGTGTTATCTGGA 1795 CAG
 A TTCCA AGCACTAATTTCCAA
 ||||| |||||||||
 AAGGT TTGTGATTAAAGGTT
 CTA

GAM170 FLJ12085 3' TTGGAAATTATGCACTTG 2006 C A C
 CA AG GCA TAATTTCCAA
 ||||| ||||| |||||
 GT TC CGT ATTAAAGGTT
 T A _

GAM170 FLJ20209 3' AGATTGGTTGCTCTGGAA 3351 CA _
 TTCCA GAGCA CTAATTT
 ||||| |||||
 AAGGT CTCGT GGTTAGA
 _ T

GAM170 FLJ22174 5' TTGGAAATTGAAGCTGTAGAG 1969 C AGCAC
 TTC ACAG TAATTTCCAA
 ||||| |||||||||
 GAG TGTC GTTAAAGGTT
 A GAA_

GAM170 HSPC129 3' TTGGAAATTAAAGGTGGA 1685 AGAGCAC
 TCCAC TAATTTCCAA
 ||||| |||||||||

AGGTG ATTAAAGGTT
 GAA_____

GAM170 KIAA0632 3' GGCCCCCAGTGCTCTGTGGAA 1634 AATTT
 TTCCACAGAGCACT CC
 |||||||| ||
 AGGGTGTCTCGTGA GG
 CCCCC

GAM170 KIAA1184 3' TTGGAAATCAGAACAGTCTGTGAG 1994 _ GCA A
 A TC CACAGA CT ATTTCAA
 || |||| || |||||
 AG GTGTCT GA TAAAGGTT
 A GAA C

GAM170 KIAA1671 3' GAAATCAGTGTTGTGGAG 2725 GA A
 TTCCACA GCACT ATTC
 ||||| |||||
 GAGGTGT TGTGA TAAAG
 ___ C

GAM170 KIAA1728 3' TGGTAGTGCTCCTGGAA 2818 CA ATTT
 TTCCA GAGCACTA CCA
 ||||| ||||| |||
 AAGGT CTCGTGAT GGT
 C_ ___

GAM170 KIAA1737 3' TTGGAAAAACCTCTGTGGAG 2789 CACTAA
 TTCCACAGAG TTTCAA
 ||||| |||||
 GAGGTGTCTC AAAGGTT
 CCAA_____

GAM170 KIAA1750 3' ATTGGAAATTGTTGCTGTGTTTC 2811 ___ III
 TGTG CAGAGCAC TAATTTCAA T
 ||||| ||||| |
 GTCTTGTG GTAAAGGTT A
 TCGTT III

GAM170 KIAA1900 3' TGGAAACATGTTGTGGAA 2972 GA CTAA
 TTCCACA GCA TTTCCA
 ||||| ||| |||||
 AAGGTGT TGT AAAGGT
 ___ AC_____

GAM170 KIAA1946 3' AAGTTAGTGCTCTGCTGAA 3246 CA
 TTC CAGAGCACTAATTT
 ||| |||||
 AAG GTCTCGTGATTGAA
 TC

GAM170 LALP1 3' AAATGAATGGTCTGTGGAA 1915 G CTA
 TTCCACAGA CA ATTT
 ||||| ||| |||
 AAGGTGTCT GT TAAA
 G AAG

GAM170 LRRFIP2 3' TTGGAAATCTGCCTGCAGA 1743 CA A CTA
 TC CAG GCA ATTTCAA
 ||| ||| |||||

		AG GTC CGT TAAAGGTT		
		AC _ C_		
GAM170	MGC1842	3' TGGCAGCAGTGCTCTGGAA	2724	A AATTT
		TTCC CAGAGCACT CCA		
		AAGG GTCTCGTGA GGT		
		CGAC_		
GAM170	MGC9753	5' TGGCCTGGTGCCTGTGGAA	2333	A ATTT
		TTCCACAG GCACTA CCA		
		AAGGTGTC CGTGGT GGT		
		_ CC_		
GAM170	PEG10	3' GAATTGGTCTGTGGAA	1606	GCA
		TTCCACAGA CTAATTT		
		AAGGTGTCT GGTAAAG		
GAM170	PGRMC2	3' TTGGAAATTAGGAGAAGGAA	1287	ACAGAGCA
		TTCC CTAATTCCAA		
		AAGG GATTAAAGGTT		
		AAGAG_		
GAM170	PPP4R1L	5' GGAAAGCCCTGTGGAA	3139	A ACTAA
		TTCCACAG GC TTTCC		
		AAGGTGTC CG AAAGG		
		C _		
GAM170	PRO0386	5' GAACTAATGTTCTGTGGAA	1843	C A
		TTCCACAGAGCA TA TTT		
		AAGGTGTCTTGT AT AAG		
		A C		
GAM170	PRO0456	3' TGGAATTCATACTCTGTGGAA	1476	CACTAAT
		TTCCACAGAG TTCCA		
		AAGGTGTCTC AAGGT		
		ATACTT_		
GAM170	SLC26A8	5' AGTCAGTATCTGTGGAA	2455	GC A
		TTCCACAGA ACT ATT		
		AAGGTGTCT TGA TGA		
		A_ C		
GAM170	SNTG1	5' TTGGAAATAGCTTG TG	1867	ACTA
		CACAGAGC ATTTCAA		
		GTGTTTCG TAAAGGTT		
		A_		
GAM170	ZNF396	3' TTGGAAATAAGTCATGGAA	3034	CA GCA A
		TTCCA GA CT ATTTCAA		

AAGGT CT GA TAAAGGTT
AA __ A

GAM170 LOC145098 5' TTGGAAATATCTTCTGTG 3074 CACTA
CACAGAG ATTTCCAA
|||||| |||||
GTGTCTT TAAAGGTT
CTA__

GAM170 LOC146136 5' GAAAAGGCCTCTGTGGAG 2964 CA AA
TTCCACAGAG CT TTTC
|||||| || |||
GAGGTGTCTC GA AAAG
CG __

GAM170 LOC148195 3' GGAAGGCATCCTGTGGAA 3298 A__ A AATT
TTCCACAG GC CT TCC
|||||| || || |||
AAGGTGTC CG GA AGG
CTA _ __

GAM170 LOC149086 5' TGGAGATGATCCGTGGAA 3306 A GCACTA
TTCCAC GA ATTTCCA
|||||| || |||||
AAGGTG CT TAGAGGT
C AG__

GAM170 LOC149420 3' TTGGAAATTAGAGGTGGAA 3133 AGAGCA
TTCCAC CTAATTTCAA
|||||| |||||||||
AAGGTG GATTAAAGGTT
GA__

GAM170 LOC149912 5' TGGAAAGTGCTCTGTGG 3317 AAT
CCACAGAGCACT TTCCA
|||||||| |||||
GGTGTCTCGTGA AAGGT

GAM170 LOC151816 5' GGAGTGTGCTCTGGAA 3350 A TAAT
TTCC CAGAGCAC TTCC
|||| ||||| |||||
AAGG GTCTCGTG GAGG
_ T__

GAM170 LOC152991 5' GAAATGGGTCATACTCTGTGGA 3365 C__ A
TCCACAGAG ACT ATTTC
|||||| || |||||
AGGTGTCTC TGG TAAAG
ATAC G

GAM170 LOC157556 3' TGGAGGGGTGCTCTGTGGAA 3382 AA
TTCCACAGAGCACT TTTCCA
|||||||| |||||
AAGGTGTCTCGTGG GGAGGT

GAM170 LOC157697 5' AAATCTTGTGCTCTGCGAA 3204 CA TA__
TTC CAGAGCAC ATTT
||| ||||| |||||

AAG GTCTCGTG TAAA
C_ TTC
GAM170 LOC158431 3' TGGAAATTGTTCTGTAGAA 3390 C C T
TTC ACAGAG AC AATTCCA
||| ||||| |||
AAG TGTCTT TG TTAAAGGT
A _ _
GAM170 LOC200488 5' GAAATGAGTCTGTGGGA 3478 GCA A
TTCCACAGA CT ATTTC
||||||| |||
AGGGTGTCT GA TAAAG
_ G
GAM170 LOC220565 3' GAAAAGGCCTCTGTGGAG 3494 CA AA
TTCCACAGAG CT TTTC
||||||| |||
GAGGTGTCTC GA AAAG
CG _
GAM170 LOC221751 5' TTGGAATTGAAGCTGTAGAG 3552 C AGCAC
TTC ACAG TAATTTCAA
||| ||| |||||
GAG TGTC GTTAAAGGTT
A GAA_
GAM170 LOC253978 5' TTGGAATCTGTGCTTGCAGAA 3743 CA TAAT
TTC CAGAGCAC TTCCAA
||| ||||| |||||
AAG GTTTCGTG AAGGTT
AC TCT_
GAM170 LOC257319 3' GAAATTAAATCCTTGTTGG 3683 CAC
CCACAGAG TAATTTC
||||||| |||||
GGTGTTC ATTAAAG
CTA
GAM170 LOC92162 5' GGAGGCGCCTGTGGAA 2816 A A AATT
TTCCACAG GC CT TCC
||||||| |||
AAGGTGTC CG GG AGG
_ C _
GAM170 LOC92391 3' GGAACAGCTCTGTGGAA 2842 ACTAAT
TTCCACAGAGC TTCC
||||||| |||||
AAGGTGTCTCG AAGG
AC _
GAM171 BACH2 3' CCGTGTGGCCCCAGCCACG 1963 CA ACAA AA_
CG GC TG CCAACACGG
||| ||| |||||
GC CG AC GGTTGTGCC
AC ___ CCC
GAM171 NCL 3' CGTGTGGTTTGACTG 2552 _ CAAT
CAG CA GAACCAACACG
||| ||| |||||

GTC GT TTTGGTTGTGC
A _____
GAM171 NEO1 3' CGTGTCTTGTGCTGTG 932 T ACCAA
CGCAGCACAA GA CACG
|||||| || |||
GTGTCGTGTT CT GTGC
T _____
GAM171 SLC21A3 3' CTGTTGGTGTGCTGC 1183 AATGA C
GCAGCAC ACCAACAG
|||||| ||||| |
CGTCGTG TGGTTGT C
A _____
GAM171 UGCG 5' CCGTGTTGGCGGCCAGCGG 1012 A ACAA AA
CCGC GC TG CCAACACGG
||| || || |||||
GGCG CG GC GGTTGTGCC
A CCG _____
GAM171 MGC3101 3' CCGCGTTTCCTGTGCTGC 2047 AT CC A
GCAGCACA GAA AAC CGG
|||||| ||||| |||
CGTCGTGT CTT TTG GCC
C_ _ C
GAM171 MGC3413 3' CCATGTTAGTGCTACATTGTGC 2269 A____ C C
GCACAATG AC AACAGG
|||||| ||||| |||
CGTGTAC TG TTGT CC
ATCG A A
GAM171 LOC151568 5' CCGTGTTGGCCTTGGCTAGG 2444 GC A TGAA
CC AGC CAA CCAACACGG
|| |||| || |||||
GG TCG GTT GGTTGTGCC
A_ _ CC_____
GAM171 LOC152765 5' GTGTGTCTTGTGCTGC 3175 T ACCA
GCAGCACAA GA ACAC
|||||| || |||
CGTCGTGTT CT TGTG
_ G_____
GAM171 LOC158314 5' CCACCCTTCACTGTGCTGCC 3387 A CCAACAC
CCGCAGCACA TGAA GG
|||||| |||||
GGCGTCGTGT ACTT CC
C CCCA_____
GAM171 LOC57086 3' CTGTTGGTGTGCTGC 1914 AATGA C
GCAGCAC ACCAACAG
|||||| ||||| |
CGTCGTG TGGTTGT C
A _____
GAM172 ABCE1 3' TTGACATTTGATAAATAAACAT 2533 A A CATC
CA C ATGT TATTTATC GTCAA
| |||| ||||| |||||

A TACA ATAAATAG CAGTT
 C A TTTA
 GAM172 DMC1 3' TGATTATGATAACTATACATT 1356 T CATC
 G CAATGTATA TTATC GTCA
 ||||| ||||| |||||
 GTTACATAT AATAG TAGT
 C TATT
 GAM172 PHEMX 3' GTGGTCAAATATACATCA 2467 A AT
 C ATGTATATT CCAT
 | ||||| |||||
 A TACATATAAA GGTG
 C CT
 GAM172 PHEMX 3' GTGGTCAAATATACATCA 2468 A AT
 C ATGTATATT CCAT
 | ||||| |||||
 A TACATATAAA GGTG
 C CT
 GAM172 PHEMX 3' GTGGTCAAATATACATCA 2469 A AT
 C ATGTATATT CCAT
 | ||||| |||||
 A TACATATAAA GGTG
 C CT
 GAM172 PHEMX 3' GTGGTCAAATATACATCA 1237 A AT
 C ATGTATATT CCAT
 | ||||| |||||
 A TACATATAAA GGTG
 C CT
 GAM172 H-L(3)MBT 3' ACGATGGGGATACATT 1632 ATTTA
 AATGTAT TCCATCGT
 ||||| |||||
 TTACATA GGGTAGCA
 G_____
 GAM172 KIAA0979 3' GGTGGGATCAACATACATTG 1602 A T _
 CAATGTAT TT ATCC ATC
 ||||| |||||
 GTTACATA AA TAGG TGG
 C C G
 GAM172 LOC220672 3' TTGACATTTGATAAATAAACAT 2566 A A CATC
 CA C ATGT TATTTCATC GTCAA
 | ||||| |||||
 A TACA ATAAATAG CAGTT
 C A TTTA
 GAM172 LOC257336 5' TTGAAAAAAAATAATGTACATT 3694 CCATCG
 AATGTATATTAT TCAA
 ||||| |||||
 TTACATGTAATA AGTT
 AAAAA_
 GAM173 MGC16169 3' AGCACCAACAGCACAGTTCTTC 2312 C__ TAACAA
 A TGAAGAGC GC GTT TGCT
 ||||| |||||

	ACTTCTTG CG CAA ACGA	
	ACA A CC_	
GAM173	LOC151414 3' AGCATTAAAAACCGAGCAGCTCT 3156	C __ AAC
	TCA TGAAGAGC GC GTTT AATGCT	
	ACTTCTCG CG CAAA TTACGA	
	A AC AA_	
GAM173	LOC153817 5' AGCATTGTTAAAGTCTCTCTTC 2591	CC G
	A TGAAGAG GC TTTAACAAATGCT	
	ACTTCTC TG AAATTGTTACGA	
	TC _	
GAM173	LOC51145 3' AGCTGCAAAAACGAGCTCTCA 1665	CG AACAAAT
	TGAAGAGC CGTTT GCT	
	III	
	ACTTCTCG GCAAA CGA	
	A_ AACGT_	
GAM174	ENAM 5' CAAAGGCAAGCTAACAAAGTTC 2215	ACTAAT C
	AA TTGAATT TTGCC TTG	
	III	
	AACTTGAA GAACGG AAC	
	ACAATC A	
GAM174	DOCK3 3' CAAGGACAAGGAGAACATTGAAATTTC 2750	CTAA C
	AA TTGAATT TA TCTTG CCTTG	
	III	
	AACTTAAGT GGAAC GGAAC	
	AAGA A	
GAM174	GAPCENA 3' AAGGGATCAGAAATTCAA 1412	A AATCTTG
	TTGAATT CT CCCTT	
	III	
	AACTTAAA GA GGGAA	
	_ CTA_	
GAM175	HNRPA2B1 3' ATTTTGTGAATGGATTGGA 902	G AGC
	TCCAATC CAT TATAAAAT	
	AGGTTAG GTA GTGTTTTA	
	_ A_	
GAM175	HNRPA2B1 3' ATTTTGTGAATGGATTGGA 2186	G AGC
	TCCAATC CAT TATAAAAT	
	AGGTTAG GTA GTGTTTTA	
	_ A_	
GAM175	bA430M15.1 3' TATTTTATTACAGATTGGA 3073	GCATAGCT
	TCCAATC ATAAAATA	
	AGGTTAG TATTTTAT	
	ACAT_	
GAM175	LOC146481 3' CTATTTATAGCCACCCAGGTA 3092	A GCATA_
	GG CC ATC GCTATAAAATAG	

GG TGG CGATATTTATC
A ACCCAC
GAM176 LOC146229 3' ACAGCAATCAAACATCAA 3087 GC T
TTGATGTTTG TGCT GT
||||||| |||| ||
AACTACAAAAC ACGA CA
TA _

GAM177 FLJ20413 3' ATAGACGAAAATCAACT 1753 AT
AGTT ATTTCGTCTAT
|||| |||||||||
TCAA TAAAAGCAGATA
C_

GAM178 CRP 3' AGAAAACTAACACCCAGAAAGG 2920 GAA_ ATAC
AG CTCT TGG TAGTTTCT
|||| |||| |||||
GAGG ACC ATCAAAAGA
AAAG CACA

GAM178 DBY 3' AAAACAGCAGCCCTATTCAAGA 1140 ATA_ A
TCTGAATGG CT GTTTT
||||||| |||||
AGACTTATC GA CAAAA
CCGAC _

GAM178 ERBB2 3' AAAGCGACCCATTCAAGAGA 1115 ATACTA
TCTCTGAATGG GTTTT
||||||| |||||
AGAGACTTACC CGAAA
CAG__

GAM178 ITGA1 3' AGAACATGTATTCCATCCAGA 2660 A TA
TCTG ATGGATAC GTTTT
|||| ||||| |||||
AGAC TACTTATG CAAGA
C TA

GAM178 MS4A1 3' AGAAAATAAGTATCCATCAGAG 710 A A
A TCTCTGA TGGATACT GTTTTCT
||||||| |||||
AGAGACT ACCTATGA TAAAAGA
_ A

GAM178 ARSDR1 3' AAAACAATTCTTCATTCAAGA 1656 TACTA
TCTGAATGGA GTTTT
||||||| |||||
AGACTTACTT CAAAA
CTTAA

GAM178 ATP1B4 3' AAAACTAGTATGTGGAAAG 1400 GAA G
CT TG ATACTAGTTTT
|| || |||||
GA GT TATGATCAAAA
AAG G

GAM178 FLJ00024 3' AGAAAACCGTCCATTAGA 2665 ACTA
TCTGAATGGAT GTTTTCT
||||||| |||||

AGATTTACCTG CAAAAGA
C
GAM178 FLJ10493 3' AAAGCATATCCGTTCA 1782 CTA
TGAATGGATA GTTTT
|||||| |||||
ACTTGCCTAT CGAAA
A
GAM178 FLJ11175 3' AGACTAACATCCATTCTGA 1816 T AC
TC GAATGGAT TAGTTT
|| ||||| |||||
AG CTTACCTA ATCAGA
T CA
GAM178 KIAA0977 3' AGAAAACTAGTGATACCA 1578 A
TGG TACTAGTTTCT
|| ||||| |||||
ACC GTGATCAAAGA
ATA
GAM178 TRIP3 3' AGAAAACTTGACATTGAGATGA 3102 _ GATACT
TC TCTGAATG AGTTTTCT
|| ||||| |||||
AG AGACTTAC TCAAAAGA
T AGT
GAM178 LOC149117 3' AAAACTTATCCATTGAGA 3307 G CT
TCT AATGGATA AGTTTT
|| ||||| |||||
AGA TTACCTAT TCAAAA
G T
GAM178 LOC196993 5' AGAAAACTTCCATTTC 3471 TACT
GAATGGA AGTTTTCT
||||| |||||
CTTACCT TCAAAAGA
T
GAM178 LOC56965 5' AGAACTCTGTATCCATCAGAGA 1900 A T TT
TCTCTGA TGGATAC AG TTCT
||||| ||||| |||||
AGAGACT ACCTATG TC AAGA
_ _ TC
GAM179 NUMA1 3' AGTCACTTCTCCATCAC 3604 A A
TGTGATGGA AA TGACT
||||| |||||
ACACTACCT TT ACTGA
C C
GAM179 SLC15A1 3' ATTGGTCATCTTCCCTATCAC 1182 A_ A
TGTGATGG AA ATGACTAAT
||||| |||||
ACACTATC TT TACTGGTTA
CC C
GAM179 CNOT3 5' AAAATTCAAGTCCCTCCATTACA 1505 AAAAT _
TGTGATGGA GACT AATTTT
||||| |||||

ACATTACCT TTGA TTAAAAA
CC__ C
GAM179 FLJ10898 5' AGTCATTTCTCCATCACA 2527 A
TGTGATGGA AAATGACT
|||||||
ACACTACCT TTTACTGA
C
GAM179 FLJ14686 3' AAAATTAGTTGTTACCTCCTCA 2286 T AA_ TG
CA TGTGA GGA AA ACTAATTT
||||||| |||||||
ACACT CCT TT TGATTAAAA
_ CCA GT
GAM179 HDAC9-PENDING 3' AAAATTGTATATTTTCCATC 1526 T TG__ T
TCA TG GATGGAAAAA AC AATTTT
||| ||||| |||
AC CTACCTTTTG TG TTAAAAA
T TATA _
GAM179 ZAK 3' GGTCACTTCCCATTACA 2427 A A
TGTGATGG AAA TGACT
||||||| |||||
ACATTACC TTT ACTGG
C C
GAM179 LOC119548 5' TGGGCCATTTCCACAACA 2984 GA A_
TGT TGGAAAAATG CTA
||| ||||| |||
ACA ACCTTTTAC GGT
AC CG
GAM179 LOC153937 5' AAAATGCAGTTTCCCTCAC 3185 T GACTA
TGTGA GGAAAAT ATTTT
||| ||||| |||||
ACACT CCTTTTG TAAAAA
T ACG_
GAM179 LOC221895 3' GGTACTTTCTCATCACA 3568 _ ATG
TGTGATG GAAAAA ACT
||||||| |||||
ACACTAC CTTTG TGG
T CA_
GAM180 BLNK 5' GACGTGACCACTGGACAGTTAT 1441 ATTTTTAA
T GATAACTGT TCACGTC
||||||| |||||
TTATTGACA AGTGCAG
GGTCACC_
GAM180 FLJ20152 3' GACAGGAAGAAAAATACAGTTA 1870 AA AC
TAACTGTATTTT TC GTC
||||||| || |||
ATTGACATAAAAA AG CAG
GA GA
GAM181 BTG2 3' GAAAAGACAAAGGTTAC 1330 AA C
GTGA CTTGTC TTTC
|||| ||||| ||||

CATT GAAACAG AAAG
G_ A
GAM181 CELSR2 3' GGAAAGGACAAGCCACA 826 AAA
TGTG CTTTGTCCCTTCC
|||| |||||||||
ACAC GAAACAGGAAAGG
C_

GAM181 GAB2 3' AAAGGACAAGGACATGAG 1424 GAAA
TTCATGT CTTTGTCCCTT
|||||| |||||||||
GAGTACA GGAACAGGAAA

GAM181 GAB2 3' AAAGGACAAGGACATGAG 2375 GAAA
TTCATGT CTTTGTCCCTT
|||||| |||||||||
GAGTACA GGAACAGGAAA

GAM181 GOLGA4 5' AGAGTTGAAATCTTCACATGA 2553 AC_ TC
A TTCATGTGAA TTTG CTTT
|||||| |||| ||||
AAGTACACTT AAGT GAGA
CTA TT

GAM181 MEF2D 3' GAAAAGACAAAGTCCTCG 3721 A_ C
TGA ACTTTGTC TTTC
||| |||||||||
GCT TGAAACAG AAAG
CC A

GAM181 NEBL 5' AAAGGACGCCACATGAG 1294 AAAC TT
TTCATGTG TGTCCCTT
|||||| |||||||||
GAGTACAC GCAGGAAA
C_

GAM181 PCSK1 3' GAAAATATGATGTTCACAT 743 T TG CC
ATGTGAAAC T T TTTC
|||||| | | ||||
TACACTTG A A AAAG
T GT TA

GAM181 PRKAR2B 3' GGAAAAGAGAGCTCTACATG 951 AAACT G C
AA TTCATGTG TT TC TTTCC
|||||| || || |||||
AAGTACAT GA AG AAAGG
CTCTC G A

GAM181 SCGB3A2 3' AAAGGACAAATAAGCAATGAA 2361 _ GAAAC
TTCAT GT TTTGTCCCTT
|||||| |||||||||
AAGTA CG AAACAGGAAA
A AAAT_

GAM181 SMP1 3' AGAGGAAACTTCACATGAA 1490 CTTTG
TTCATGTGAAA TCCTTT
|||||| |||||||

		AAGTACACTTT	AGGAGA		
		CAA_			
GAM181	SYNGR1	3' GGAAAAAAAGGTTCACAT	1147	G_	
		ATGTGAAACTTT	TCC		
		TACACTTGAA	AGG		
		AAA			
GAM181	TGFA	3' GGAAACTGTTAACATCACATG	1001	TTTG	
		AA	TTCATGTGA AAC TCC		
		AAGTACACT	TTG AGG		
		ATAAT TCAA			
GAM181	ACAA2	5' GGCAAAGTCTCACCTGAA	3540	T A	
		TTCA GTGA ACTTGTC			
		AAGT CACT TGAAACGG			
		C C			
GAM181	C1orf34	3' AAAGGACAAAGCCTCAGGGAA	2576	ATG AA	
		TTC TGA CTTTGTCC	TTT		
		AAG ACT GAAACAGGAAA			
		GG_ CC			
GAM181	CAMKK2	3' GGAAAGGACCTGCCACATGA	1310	AAACTTT	
		A	TTCATGTG GTCCTTCC		
		AAGTACAC CAGGAAAGG			
		CCCGTC_			
GAM181	FLJ10849	3' GAAAGGATAACATTCTCATGA	1803	T CT	
		A	TTCATG GAAA TTGTCCTTC		
		AAGTAC CTTT AATAGGAAAG			
		T AC			
GAM181	FLJ13262	3' GGAATAAAATTTCACATGAA	2112	C _	
		TTCATGTGAAA TTTGT CC			
		AAGTACACTTT AAATA GG			
		_ A			
GAM181	FLJ21977	5' GGACAAAGCTCACATGAA	2237	AA	
		TTCATGTGA CTTTGTCC			
		AAGTACACT GAAACAGG			
		C_			
GAM181	FLJ22301	3' GAAAGCTCACTCCATGAA	2095	T ACTT TC	
		TTCATG GAA TG CTTTC			
		AAGTAC CTT AC GAAAG			
		_ C__ TC			
GAM181	HERC1	3' GAAAGGACAGTTTACATGAA	1071	TT	
		TTCATGTGAAACT GTCCTTTC			

AAGTACATTTGA CAGGAAAG

GAM181 KIAA0280 3' AAAGGAATCACATGAA 3536 AACTTG
TTCATGTGA TCCTTT
||||||| |||||
AAGTACACT AGGAAA
A_____

GAM181 KIAA0391 3' GAAAAGATAATTACTTACATGA 1517 AACT C
A TTCATGTGA TTGTC TTTC
||||||| |||||
AAGTACATT AATAG AAAG
CATT A

GAM181 PRO1386 3' GAAAAAAACAAAGTTCTGCATGA 2188 GA CC
G TTCATGT AACTTGT TTTC
||||||| |||||
GAGTACG TTGAAACA AAAG
TC AA

GAM181 RBMS1 3' GAAAGGTGTTCTTACATGAA 1711 _ TTTGT
TTCATGTGA AAC CCTTTC
||||||| |||||
AAGTACATT TTG GGAAAG
C T_____

GAM181 RBMS1 3' GAAAGGTGTTCTTACATGAA 1712 _ TTTGT
TTCATGTGA AAC CCTTTC
||||||| |||||
AAGTACATT TTG GGAAAG
C T_____

GAM181 RBMS1 3' GAAAGGTGTTCTTACATGAA 1713 _ TTTGT
TTCATGTGA AAC CCTTTC
||||||| |||||
AAGTACATT TTG GGAAAG
C T_____

GAM181 RBMS1 3' GAAAGGTGTTCTTACATGAA 970 _ TTTGT
TTCATGTGA AAC CCTTTC
||||||| |||||
AAGTACATT TTG GGAAAG
C T_____

GAM181 ROBO2 5' AAAAGACAAAGTTCGAATTGA 2635 TG_ A C
TCA TGAA CTTTGTC TTT
||| |||||
AGT GCTT GAAACAG AAA
TAA _ A

GAM181 SGP28 3' AAAGAACAAATATAATTTCACCA 1270 CT____ C
TGAA TTCATGTGAAA TTGT CTTT
||||||| |||||
AAGTACACTTT AACAGAAA
TAATAT A

GAM181 ST7L 3' AAAGGACAACTGTAGATGAA 1746 G AACT
TTCAT TG TTGTCCTTT
||| || |||||

AAGTA AT AACAGGAAA
G GTC__
GAM181 ST7L 3' AAAGGACAACGTAGATGAA 2456 G AACT
TTCAT TG TTGTCCTTT
|||||| |||||||||
AAGTA AT AACAGGAAA
G GTC__
GAM181 ST7L 3' AAAGGACAACGTAGATGAA 2475 G AACT
TTCAT TG TTGTCCTTT
|||||| |||||||||
AAGTA AT AACAGGAAA
G GTC__
GAM181 LOC152263 3' GAAAGGACAAAATAAACACA 3356 AAAC_
TGTG TTTGTCCTTTC
|||| |||||||||
ACAC AACAGGAAAG
AAATA
GAM181 LOC157507 5' ACAAAAGCTATCACATGAA 3202 AA_
TTCATGTGA CTTTGT
|||||| |||||
AAGTACACT GAAACA
ATC
GAM181 LOC158158 3' GAAAGGACATCTACACCGAA 3211 AT AAACTT
TTC GTG TGTCTTTC
||| ||| |||||||||
AAG CAC ACAGGAAAG
C_ ATCT__
GAM181 LOC219730 3' GGAAAGGACAAAATGGAGAGTG 3588 GTGAAAC
A TCAT TTTGTCCTTCC
|||| |||||||||
AGTG AACAGGAAAGG
AGAGGTA
GAM181 LOC255158 3' GAAAAAAACAAAAAGTTATATAT 3693 A __ CC
GAA TTCATGTG AACTT TGT TTTC
|||||| ||||| |||||
AAGTATAT TTGAA ACA AAAG
A AA AA
GAM182 PTPRM 3' ATGCAAAACTCAACGATC 963 G _ C
GAT CGT GAGT TTGCAT
|||| ||| |||||
CTA GCA CTCA AACGTA
- A A
GAM182 HCA4 3' AATGCAAGAAGGAACACATAAG 2450 CG C GAG_
TA TACT ATG GT TCTTGCATT
|||| ||| |||||||||
ATGA TAC CA AGAACGTAA
A_ A AGGA
GAM182 HCA4 3' AATGCAAGAAGGAACACATAAG 3086 CG C GAG_
TA TACT ATG GT TCTTGCATT
|||| ||| |||||||||

ATGA TAC CA AGAACGTAA
A_ A AGGA

GAM183 FLJ13154 3' ACCAGAACCTCCACTGTAGT 2070 — A
ACTGCA GAGATTCT GT
||||| ||||| ||
TGATGT CTCTAAGA CA
CAC C

GAM183 HDAC9-PENDING 3' ACTAGAACCTCTTAAGTAT 1527 GC
ATACT AGAGATTCTAGT
||||| |||||
TATGA TCTCTAAGATCA
AT

GAM183 KIAA0232 3' TTACTAGCATTGCAGTGTC 2958 AGATT
GATACTGCAG CTAGTAA
||||||| |||||
CTGTGACGTT GATCATT
AC__

GAM183 KIAA1010 3' ACTAGAACCTCTAGAATTG 2933 TACTGC
TCGA AGAGATTCTAGT
||| |||||
AGTT TCTCTAAGATCA
TAAGA_

GAM183 LOC219894 3' TGCTGTCTGCAGTACTGA 3596 A TCT
TCG TACTGCAGAGAT AGTA
||| ||||| |||||
AGT ATGACGTCTCTG TCGT
C __

GAM184 PABPC4 3' AATAAAGAAAAAAATCTCCA 1064 A AG
TGGAGA TTTTTTTC TTGTT
||||| ||||| |||||
ACCTCT AAAAAAAG AATAA
A A_

GAM184 SH3GL2 3' GACTGAAAAGAAATTCTCCA 983 —
TGGAGAATTTTTT CAGTT
||||| ||||| |||||
ACCTCTAAAGAAA GTCAG
A

GAM184 IMP-2 3' CAAACAAAGAAAAAATTCCACA 1309 GA CAG
TG GAATTTTTT TTGTTTG
||| ||||| |||||
AC CTTAAAAAAG AACAAAC
AC A_

GAM184 KIAA0872 3' CAAAAGAAAAAAATTCTCC 1593 _ AG
GGAGAATTTTTT C TTG
||||| ||| |||||
CCTCTAAAAAA G AAC
A AA

GAM184 MGC19570 5' CAAACAAACCGACTCCTTCCA 2514 ATTTTTT A
TGGAGA TC GTTGTGG
||||| ||| |||||

ACCTTT AG CAACAAAC
CCTC_ C
GAM184 PTPN4 3' CAAACAAGGCTAAAATTCTC 961 TTTCAG
GAGAATT TTGTTTG
|||||| |||||
CTCTTAAAA AACAAAC
CTCGG_
GAM184 TIX1 5' CAAACAAC TGAAAAAGCTGCA 2604 G AAT
TG AG TTTTTCA GTTGTGG
|| || |||||
AC TC GAAAAAGTCAACAAAC
G __
GAM185 PSG5 3' AAAAAACTCCATGTTATTGGAC 955 TC_ AC
TAA TTAGTTCA ATATGGA TTTTT
|||||| ||||| |||||
AATCAGGT TGTACCT AAAAAA
TAT CA
GAM185 FAPP2 3' AAAAAGCTGGTGGTGAAC 2267 ATGGAA
GTTCATCAT CTTTT
|||||| |||||
CAAGTGGTG GAAAAA
GTC __
GAM185 LOC145820 3' AAGTGCCACAAAATGAAC 3084 CATA A
TTAGTTCAT TGG ACTT
|||||| |||||
AATCAAGTA ACC TGAA
AAAC G
GAM185 LOC83690 3' AAAAAGTTGAACAAAGATGAAC 2202 ATATGG_
TAA TTAGTTCATC AACTTTTT
|||||| |||||
AATCAAGTAG TTGAAAAA
AAACAAG
GAM186 IGF1 3' TATACTACAGCAGAAC 762 A ACG C
AGTTATTC TG GTAG ATA
|||||| || |||||
TCAGTAAG AC CATC TAT
_ GA_ A
GAM186 FLJ20035 3' ATGTTCTGTCATGAATACT 1733 T T
AGT ATT CATGACGG AGCAT
|| ||||| |||||
TCA TAAGTACTGTC TTGTA
— —
GAM186 FXYD3 3' TATGCTACCCTTAATAAC 1966 TCA C
GTTAT TGA GGTAGCATA
|||| |||||
CAATA ATT CCATCGTAT
_ C
GAM186 FXYD3 3' TATGCTACCCTTAATAAC 1263 TCA C
GTTAT TGA GGTAGCATA
|||| |||||

CAATA ATT CCATCGTAT
 _____ C
 GAM186 GMFB 3' TATTGAGCCATGAATAATTAA 1090 A_____
 TAAGTTATTCTATG CGGTA
 ||||||| |||||
 ATTTAATAAGTAC GTTAT
 CGA
 GAM187 ADCY2 3' ATGTTGAATGTATCTAGTG 2710 TT G
 CACTAG TA ATTCAACAT
 ||||| || |||||
 GTGATC AT TAAGTTGTA
 T_ G
 GAM187 CCNA1 3' GTTGGATCAACTAATG 1070 C TA
 CA TAGTT GATTCAAC
 || ||||| |||||
 GT ATCAA CTAGGTTG
 A ____
 GAM187 COG6 3' ATGTTGACCTGAGCTAGT 2961 AT
 ACTAGTTAG TCAACAT
 ||||||| |||||
 TGATCGAGTC AGTTGTA
 C_
 GAM187 DACH 3' GTATATTGAACCCTAGGCTAGT 2387 A_ C
 G CACTAGTTAG TTCAA ATAC
 ||||||| |||||
 GTGATCGGATC AAGTT TATG
 CC A
 GAM187 FKBP1A 3' GTGTGTTACCTAAACTA 775 ATTC
 TAGTTAG AACATAC
 ||||| |||||
 ATCAAATC TTGTGTG
 CAT_
 GAM187 HSPD1 3' ATGTTCTAACCTCAGACTAGT 2559 ATTC_____
 G CACTAGTTAG AACAT
 ||||||| |||||
 GTGATCAGATC TTGTA
 CTCAAATC
 GAM187 JJAZ1 3' TATGTTGAATTGATCTAG 1622 TTTA
 CTAG GATTCAACATA
 ||||| |||||
 GATC TTAAGTTGTAT
 TAG_
 GAM187 MAN1A1 3' GTATGTCAAAGAATAAATTAGT 3543 GA_ CA
 ACTAGTTA TT ACATAC
 ||||||| || |||||
 TGATTAAT AA TGTATG
 AAG AC
 GAM187 PKIB 3' ATGTTGAAAGACTTAGTG 2254 _ AGA
 CACTA GTTT TTCAACAT
 ||||| |||||

GTGAT CAGA AAGTTGTA
T
GAM187 RRM2B 3' GTATGTTGAAATAACTA 2799 GA
TAGTTA TTCAACATAC
|||||| |||||||
ATCAAAT AAGTTGTATG
A_

GAM187 SWAP70 3' GTATGTGCTGTTAACTAG 2917 ATTCA
CTAGTTAG ACATAC
|||||| |||||
GATCAAATT TGTATG
GTCG_

GAM187 ABHD3 3' GTTTAATTAAACTAGT 2436 C_
ACTAGTTAGATT AAC
||||||| |||
TGATCAAATTAA TTG
TT

GAM187 ATIP1 3' ATGTTCTTTAAATTAGTG 1924 TTC
CACTAGTTAGA AACAT
||||||| |||||
GTGATTAAATTT TTGTA
TC_

GAM187 DKFZP564F013 3' TATGTTGAATTATGTCAGTG 3640 AG TTA
CACT T GATTCAACATA
||| | |||||||||
GTGA G TTAAGTTGTAT
CT TA_

GAM187 FN5 3' TATGTTGAATCAAAGTG 1898 AGT A
CACT TT GATTCAACATA
||| || |||||||||
GTGA AA CTAAGTTGTAT

GAM187 KIAA0416 3' TATGCTGAAGACTGGT 1637 TAGA A
ACTAGTT TTCA CATA
|||||| |||||
TGGTCAG AAGT GTAT
C

GAM187 KIAA0455 3' TATGTTGATTCTACCTGTG 2948 T TT T
CAC AG TAGA TCAACATA
||| || |||||||||
GTG TC ATCT AGTTGTAT
- C_ T

GAM187 KIAA0912 3' GTATGTTTACTAACTAG 2689 ATTC
CTAGTTAG AACATAC
||||||| |||||
GATCAAATT TTGTATG
CATT

GAM187 KIAA0981 3' ATGTTGAATTAACTAG 2597 -
CTAGTTAGA TTCAACAT
||||||| |||||||

GATCAAATT AAGTTGTA
 T
 GAM187 KIAA1911 3' TATGTTGAAAAACTGCTGTG 2976 T TTAGA
 CAC AGT TTCAACATA
 ||||| |||||
 GTG TCG AAGTTGTAT
 - TCAAA

GAM187 KRTHB2 3' GTATGTTGAACCCAAACTGTG 2310 T AGA
 CAC AGTTT TTCAACATAC
 ||||| |||||
 GTG TCAAA AAGTTGTATG
 - CCC

GAM187 RPS6KC1 3' GTATGTTGAATGTGGTCCCAG 1429 AGT_ G
 CT TTA ATTCAACATAC
 ||| |||||
 GA GGT TAAGTTGTATG
 CCCT G

GAM187 TOMM70A 3' ATGTTGATTTTAAATTA 1558 T_
 TAGTTTAGA TCAACAT
 ||||| |||||
 ATTAATTT AGTTGTA
 TT

GAM188 CDC23 3' TGCACAGTAGATGCTATGGA 1141 AAC
 TCTATAGCATCTACT TGTA
 ||||||| |||||
 AGGTATCGTAGATGA ACGT
 C_

GAM188 EGLN3 3' TGGAGGTGGTAGATGCCACAGA 2330 ATA A G
 TCT GCATCTACTA CT TA
 ||| ||||| |||||
 AGA CGTAGATGGT GA GT
 CAC G G

GAM188 EGLN3 3' TGGAGGTGGTAGATGCCACAGA 1976 ATA A G
 TCT GCATCTACTA CT TA
 ||| ||||| |||||
 AGA CGTAGATGGT GA GT
 CAC G G

GAM188 JAM3 3' GTACACAGATGCTACAGA 2280 A ACTAAC
 TCT TAGCATCT TGTAC
 ||||| |||||
 AGA ATCGTAGA ACATG
 C C_

GAM188 RNF7 3' ACAGCTTAGAAGTGCTATA 1485 T A _
 TATAGCA CT CTAA CTGT
 ||||| ||||| |||||
 ATATCGT GA GATT GACA
 - A C

GAM188 WBSCR5 3' GTACAGTTAACTTATAGA 1973 CATCTAC
 TCTATAG TAACTGTAC
 ||||| ||||| |

		AGATATT	ATTGACATG	
		CA_____		
GAM188	WBSCR5	3' GTACAGTTAACTTATAGA	2250	CATCTAC
		TCTATAG	TAACTGTAC	
		AGATATT	ATTGACATG	
		CA_____		
GAM188	WBSCR5	3' GTACAGTTAACTTATAGA	1479	CATCTAC
		TCTATAG	TAACTGTAC	
		AGATATT	ATTGACATG	
		CA_____		
GAM188	C8orf13	3' TGCACAGCTTTAGGCTATA	3206	ATCT TAA A
		A	TCTATAGC AC CTGT CA	
		AGATATCG	TG GACA GT	
		GATT TC_	C	
GAM188	CDT6	3' TATAGTTAATAATAATGCTGT	1945	C C_____
		A	TATAGCAT TA TAACTGT	
		ATGTCGTA	AT ATTGATAT	
		A AATA		
GAM188	DKFZp566D234	3' TGCAGCATGCTATA	2613	CTACTAA
		TCTATAGCAT	CTGTA	
		AGATATCGTA	GACGT	
		C_____		
GAM188	FLJ10525	3' GTACAGTTTAGTATA	1786	GCAT CT
		TCTATA CTA AACTGTAC		
		AGATAT GAT TTGACATG		
		____ T_		
GAM188	FLJ12078	5' TGCTAGAGTAATGCTATA	2121	C AACT
		TATAGCAT TACT GTA		
		ATATCGTA ATGA CGT		
		__ GAT_		
GAM188	KIAA0007	3' TGTACAGTTATTTGTCTATA	3154	_ TC C
		TATAG CA TA TAACTGTACA		
		ATATC GT AT ATTGACATGT		
		T TT _		
GAM188	KIAA1728	3' TGTACAATTAGTACTTTATAG	2819	CATC C
		CTATAG TACTAA TGTACA		
		GATATT ATGATT ACATGT		
		TC_ A		
GAM188	MGC4643	3' TGTACAGTCTAAAGCTACAGA	2272	A ATCTACTA
		TCT TAGC ACTGTACA		

		AGA ATCG TGACATGT		
		C AAATC_____		
GAM188	MPPE1	3' TGTACAGTATGAAATGCTAT 2029	C TA	
		ATAGCAT TAC ACTGTACA		
		TATCGTA ATG TGACATGT		
		A TA		
GAM188	RNPS1	3' TGTACAGTCAGTACTATA 2376	CATC A	
		TATAG TACT ACTGTACA		
		ATATC ATGA TGACATGT		
		____ C		
GAM188	RNPS1	3' TGTACAGTCAGTACTATA 1326	CATC A	
		TATAG TACT ACTGTACA		
		ATATC ATGA TGACATGT		
		____ C		
GAM188	TUSP	3' AGTAGAAGATGCTACAGA 1907	A A A	
		TCT TAGCATCT CTA CT		
		AGA ATCGTAGA GAT GA		
		C A _		
GAM188	LOC153027	3' TGTACAGTCAGTTCTATA 2792	CATCT A	
		TATAG ACT ACTGTACA		
		ATATC TGA TGACATGT		
		T ____ C		
GAM188	LOC153114	5' GTGAGCAGACTGCTATAGA 3367	_ A A	
		TCTATAGCA TCT CT AC		
		AGATATCGT AGA GA TG		
		C C G		
GAM189	SORT1	3' CATCAAAGCCAAAAGGACCTAC 974	A C AAA	
		TGTA G TCTTTTG TTGATG		
		ACAT C AGGAAAAC AACTAC		
		_ C CGA		
GAM189	ATP9A	3' CATCAATCTGGAAAGAACCTAC 2618	C GAA	
		TGTAAG TCTTTTT ATTGATG		
		ACATTC AGAAAGG TAACTAC		
		A TC_		
GAM189	DKFZP434K1772	3' TTTCAAAAAGAGGTTACA 2797	G	
		TGTAA CTCTTTTGAAA		
		ACATT GAGAAAAACTTT		
		G		
GAM189	UNC5D	3' CAATTCAAAGAGAACCCACA 2392	AAGC	
		TGT TCTTTTGAAATTG		

ACA AGAGAAACTTAAC
CCCA

GAM190 SCD 3' AGCCAGACAAAATTTGAGAATA 1176 CA TG CCA
TAT T A TTTGTCTGGCT
||| ||| |||||||||
ATA A T AAACAGACCGA
AG GT TA_

GAM190 SOS2 3' AGCCATATGTAGTCATTGA 2824 T CATT C
TCA TGAC TGT TGGCT
||| |||| |||||
AGT ACTG GTA ACCGA
T AT_ T

GAM190 BANP 3' CCAGACAAGTGCCCCAACGA 2744 A AC
TC TTG CATTGTCTGG
||| |||||
AG AAC GTGAACAGACC
C CC

GAM190 KIAA0446 5' AGCCAGACAAAAGAACATGATT 2831 T GACCA
A ATCATT TTTGTCTGGCT
| |||| |||||||||
C TAGTAA AAACAGACCGA
T GAA_

GAM190 LOC115110 3' GGCTGAAATGGTCAAT 2924 GTC
ATTGACCATTT TGGCT
||||||| |||||
TAACTGGTAA GTCGG

GAM190 LOC148443 3' AGCCAACACATATGGTCAATGA 3118 T C_
TCATTGACCAT TGT TGGCT
||||||| ||| |||||
AGTAACTGGTA ACA ACCGA
T CA

GAM190 LOC151826 3' TTATTCAAAGGCCAATGATA 3161 A A TC
TATCATTG CC TTTG TGG
||||||| ||| |||||
ATAGTAAC GG AAC ATT
C _ TT

GAM190 LOC200609 5' CCACCCACCAATGGTCAAGATAT 3479 A T C_
ATATC TTGACCATT GT TGG
||||||| ||| |||||
TATAG AACTGGTAA CA ACC
- C CC

GAM191 BHLHB3 3' TCAAGTGCATCTATTCCC 2163 AAATAC GT
TGGGAATA TACT TGA
||||||| |||| |||||
ACCCTTAT GTGA ACT
CTAC_ _

GAM191 ITK 3' CATGAGGTAATATTATTATTCC 1223 _ C GT_
CA TGGGAATAA AATA TACT TG
||||||| |||| ||||| ||

		ACCCCTTATT TTAT ATGG AC		
		A A AGT		
GAM191	MPV17	3' CTTGATAATAGTCTTATTCCCA 2888	AAT	C TG
		TGGGAATAA ACTA TGT AG		
		ACCCCTTATT TGAT ATA TC		
		C__ A GT		
GAM191	MSR1	3' TCAGCATTTTATTCCCA 930		TA
		TGGGAATAAAA TGTTGA		
		ACCCCTTATT ACGACT		
		T_____		
GAM191	RNMT	3' TCAGCACCAATTCCCA 1061		AATA
		TGGGAATAA TGTTGA		
		ACCCCTTATT ACGACT		
		ACC_____		
GAM191	SCP2	3' CAGAACAGTATTTCTTCCCA 976	T	ACTG
		TGGGAA AAAACT TTG		
		ACCCCTT TTTTATGA GAC		
		C CAAA		
GAM191	DKFZP564K0822	3' CTCAACAATTTGTATTCCCA 3630		AA
		TGGGAATA TGTTGAG		
		ACCCCTTAT ACAACTC		
		GTTTTA_____		
GAM191	KIAA0564	3' CAAAATGTACCTTATTCCCA 2742	AA	TACTG
		TGGGAATAA TAC TTG		
		ACCCCTTATT ATG AAC		
		CC TAA_____		
GAM191	KIAA0769	3' CGGCATTATTTATTCCCA 1560		CTAC
		TGGGAATAAAATA TGTTG		
		ACCCCTTATT ACGGC		
		T_____		
GAM191	KIAA1163	3' CTTGGTTAGTATTTGATTCCCA 3122	A	CTG TG
		TGGGAAT AAATACTA T AG		
		ACCCCTTA TTTATGAT G TC		
		G T__ GT		
GAM191	KIAA1332	3' CAACAAAGGATTTATTCC 2909	A	AC
		GGAATAAAAT CT TGTTG		
		CCTTATTAA GG ACAAC		
		_ AA		
GAM191	SFRS11	3' AGTAATAATTTATTCCCA 1155	A	C
		TGGGAATAAA TA TACT		

ACCCCTTATTT AT ATGA
A A

GAM191 ZNF387 3' CTCAACAGTAATTCCACTCCCC 1521 ATAAAATAC
 TGGGA TACTGTTGAG
 ||||| |||||||
 ACCCT ATGACAACTC
 CACCTTA_

GAM191 LOC138639 3' CTCAACACACCAAGCCTTATTC 3020 AATACTAC_
 CCA TGGGAATAA TGTTGAG
 ||||||| |||||||
 ACCCTTATT ACAACTC
 CCGAACACAC

GAM191 LOC147299 3' CAACATTTTATTC 3107 TACTAC
 TGGGAATAAA TGTTG
 ||||||| |||||
 ACCTTTATTT ACAAAC

GAM191 LOC90019 5' CTCAACAGCTGCTTATTCCCG 2445 AATACTA
 TGGGAATAA CTGTTGAG
 ||||||| |||||||
 GCCCTTATT GACAACTC
 CGTC_

GAM192 B3GALT5 5' AGATCAGAGACTGTAAAAAGT 2320 C_ C
 GCTT TACAGTCTTT GTTT
 |||||||||||
 TGAA ATGTCAGAGA TAGA
 AA C

GAM192 BTEB1 3' GAAACGAAAGAAAGCAAAGC 808 CTACAG
 GCTT TCTTCGTTTC
 |||| |||||||
 CGAA AGAAAGCAAAG
 ACGAA_

GAM192 RP2 3' GCTAAAACGTAGAAC 1340 C C
 GCTTCTACAGT TTT GT
 ||||||| ||| ||
 CGAAGATGTCA AAA CG
 - T

GAM192 C12orf22 3' AAACAAAACGTAGAAC 2169 C C
 GCTTCTACAGT TTT GTTT
 ||||||| ||| ||
 CGAAGATGTCA AAA CAAA

GAM192 C20orf26 3' GGAAACGCGCTCTGTAGAA 2879 TCTTT
 TTCTACAG CGTTTCC
 ||||||| |||||||
 AAGATGTC GCAAAGG
 TCGC_

GAM192 FLJ14627 5' GAACTTGAAGACTGCAGAGC 2283 T A C_
 GCT CT CAGTCTTT GTTT
 ||| ||||||||| ||||

CGA GA GTCAGAAG CAAG
 _ C TT
 GAM192 GPR72 3' GGAAACACACTCCTGCAGAAC 2867 A TCTTC
 TG TAGCTTCT CAG GTTTCC
 ||||| |||||
 GTCGAAGA GTC CAAAGG
 C CTCACA

GAM192 GPT2 3' GAAAAGGTAAATCGTAGAAC 2418 A CTT_ G
 TA TAGCTTCTAC GT TC TTTC
 ||||| |||||
 ATCGAAGATG TA GG AAAG
 C AATT A

GAM192 KIAA0470 5' GCCAAAGACTTAGAAC 1556 C C
 TAGCTTCTA AGTCTT GT
 ||||| |||||
 ATCGAAGAT TCAGAAA CG
 _ C

GAM192 KIAA1328 5' GAAATCATACCTGCAGAAC 2602 A TCTTC
 TAGCTTCT CAG GTTTCC
 ||||| |||||
 ATCGAAGA GTC TAAAG
 C CATA_

GAM192 KIAA1981 3' AGATGAAACCATGGAAC 3430 CA CT
 GCTTCTA GT TTCGTTT
 ||||| |||||
 CGAAGGT CA AAGTAGA
 AC _

GAM192 MGC17330 3' GGAAACGAGTTGTACAGAA 2342 _ TCT
 GCTTCT ACAG TTCGTTCC
 ||||| |||||
 TGAAGA TGTT GAGCAAAGG
 CA T_

GAM192 MRPL35 3' GAAACGAAAAAGTTAAC 1701 CT AGTC
 GCTT AC TTTCGTTTC
 ||||| |||||
 CGAA TG AAAGCAAAG
 T_ AA_

GAM192 LOC205011 5' GAAAACAAGAGTAGAGGC 3492 AG TCG
 GCTTCTAC TCTT TTTC
 ||||| |||||
 CGGAGATG AGAA AAAG
 _ CA_

GAM193 KIAA1228 3' CGGAACACACCCTCTCA 2712 AAA
 TGAGA GTGTGTTCTG
 ||||| |||||
 ACTCT CACACAAGGC
 CC_

GAM193 KIAA1655 5' GCGACTCGGGGCACTGCTCCTC 2754 AAA _ A
 A TGAG AGT GTGTTCTGA TCGC
 ||||| ||||| |||

ACTC TCG CACGGGGCT AGCG
C_ T C
GAM193 NDST3 3' TAGAACACACCTTTCCA 1157 A _
TG GAAAAG TGTGTTCTG
|| ||||| |||||
AC CTTTC ACACAAGAT
_ C
GAM193 PP1057 3' GCAATTACACACTTGTCTCA 2189 A TCT C
TGAGA AAGTGTGT GAAT GC
|| ||||| |||||
ACTCT TTCACACAC TTTA CG
G _ A
GAM193 RNP24 3' CGACTCAGCATACTTTCCCA 1333 A G T A
TG GAAAA TGTGT CTGA TCG
|| ||||| |||||
AC CTTTT ACATA GACT AGC
C _ C C
GAM193 LOC150142 5' CAGAACACCACCTCTCA 3142 AAA _
TGAGA GTG TGTTCTG
|| ||||| |||||
ACTCT CAC ACAAGAC
C_ C
GAM193 LOC199899 5' ATTCAAAACACACATTTC 3473 AA C
GAA GTGTGTT TGAAT
|| ||||| |||||
CTT CACACAA ACTTA
A_ A
GAM193 LOC222068 3' ATTTTAATACACTTCCCTCA 3573 AA CT
TGAG AAGTGTGTT GAAT
|| ||||| |||||
ACTC TTCACATAA TTTA
CC T_
GAM194 HUS1 3' TTCCATTATAATTACATCT 3509 A TC
GGAT TAGTT ATAATAGGAA
|| ||||| |||||
TCTA ATTAA TATTATCCTT
C _
GAM194 TRPM8 3' TCCTATTGAAGGAACCACCCCC 2052 ATATA A_
GG GTTTC TAATAGGA
|| ||||| |||||
CC CAAGG GTTATCCT
CCCAC AA
GAM194 LOC148936 3' CCTACCTGATATTACATCCTA 3304 A T TAA
TAGGAT TAGT TCA TAGG
|| ||||| |||||
ATCCTA ATTA AGT ATCC
C T CC_
GAM194 LOC148938 3' CCTACCTGATATTACATCCTA 3303 A T TAA
TAGGAT TAGT TCA TAGG
|| ||||| |||||

ATCCTA ATTA AGT ATCC
C T CC_
GAM194 LOC200803 3' TTCCTATTATGGTATCC 3452 AGTTTC
GGATAT ATAATAGGAA
|||||| |||||||||
CCTATG TATTATCCTT
GTA__

GAM194 LOC255332 5' TTCCTATTACTCTGCATATCTT 3696 A TTCA
A TAGGATAT GT TAATAGGAA
|||||| || |||||||
ATTCTATA CG ATTATCCTT
_ TCTC

GAM194 LOC90459 3' CTAGATGAAACCATATCTTA 2641 A AA
TAGGATAT GTTTCAT TAG
|||||| ||||| |||
ATTCTATA CAAAGTA ATC
C G_

GAM195 DKFZp434E0519 5' TGGAAATCCGTGTGTA 2241 ACG
TTACACACGGA TTTA
||||||| |||||
AATGTGTGCCT AGGT
AA_

GAM195 HSU84971 3' GTTATAAACATTCTTATGTGTA 1439 C_ C
AT ATTACACA GGAA GTTTATAAC
||||||| ||||| |||||
TAATGTGT TCTT CAAATATTG
AT A

GAM195 LOC157663 3' AGCTTCCCATTGTGTAATA 3203 C_ C
TATTACACA GGAA GTT
||||||| |||||
ATAATGTGT CCTT CGA
TAC _

GAM196 EXT2 3' GAGAAGAGAAGCGTGTAA 737 G
TAACACGCTTCT TTCTC
||||||| |||||
ATTGTGCGAAGA AAGAG
G

GAM196 MBNL 3' ATAGATGAGAGCGTGCATGC 1936 TTC__
GC TGTTCTCATCTAT
|| |||||||||
CG GCGAGAGTAGATA
TACGT

GAM196 PLN 3' AGATGAGAACTGGTGGTTA 946 A TCT
TAAC CGCT GTTCTCATCT
||||||| |||||
ATTG GTGG CAAGAGTAGA
_ T__

GAM196 SLC12A2 3' AGCAATAAAAGCGTGTAA 796 C __
TAACACGCTT TGTT CT
||||||| ||||| ||

ATTGTGCGAA ATAA GA
A C

GAM196 SLC1A3 3' AGATGAGAACAGACTAGCAGC 1092 T __
GCT CTG TTCTCATCT
||| ||| |||||||
CGA GAT AAGAGTAGA
C CAG

GAM196 BTBD3 3' ATAGATGATGAAAAGCTGTTA 1600 C CTG _
TAACA GCTT TTC TCATCTAT
||| ||| ||| |||||
ATTGT CGAA AAG AGTAGATA
_ _ T

GAM196 KIAA1237 3' AGATGAGGATGAGCGT 3166 CT
ACGCTT GTTCTCATCT
||| ||| |||||||
TGCAG TAGGAGTAGA

GAM196 NAALAD2 3' ATAGATGAGAATTTCCGT 1215 CTTCT
ACG GTTCTCATCTAT
||| |||||||
TGC TAAGAGTAGATA
CTT_

GAM196 PEG10 3' ATAGATGAATTAGTAAGC 1605 _ TTC
GCTT CTG TCATCTAT
||| ||| |||||
CGAA GAT AGTAGATA
T TA_

GAM197 RAI2 5' AGAATTAGGCTTAAAAATGCC 1959 CG TATGAT
T AGGCATTT TAA ATTCT
||| ||| |||||
TCCGTAAA ATT TAAGA
AA CGGAT_

GAM197 UMPK 3' CATGGAGATGAAATGCCT 1436 AA_
AGGCATTTG TATG
||| |||||
TCCGTAAAGTA GTAC
GAG

GAM197 ZNF134 3' GAAAATCATGAAATGCC 1021 GTAAT A
AGGCATTTC ATGAT TTC
||| ||| |||||
TCCGTAAAG TACTA AAG
_ A

GAM197 ARL8 3' AGAATATCACATTATTCAATGC 3594 TC A
GCATT GTAAT TGATATTCT
||| ||| |||||||
CGTAA TATTA ACTATAAGA
CT C

GAM197 KIAA0546 3' AATGTTAATTATGAAACACCT 2911 CA A
AGG TTTCGTAAT TGATATT
||| |||||||

TCC AAAGTATTA ATTGTAA
AC _
GAM197 KIAA0644 3' AGAACATCACTGAAAATGCCT 1557 _ TAATA A
AGGCATT CG TGAT TTCT
|||||| || |||||
TCCGTAAA GT ACTA AAGA
A C__ C
GAM197 KIAA1508 3' GGATATCACATAATGCC 2614 TCGTA A
GGCATT AT TGATATTG
|||||| |||||||
CCGTAA TA ACTATAGG
____ C
GAM197 MTHFS 3' ATTGTAATTATGAAATACCT 1302 C _ TG
AGG ATTCGTAAT A AT
||| |||||||| | ||
TCC TAAAGTATTA T TA
A A GT
GAM197 SUCLA2 3' GTCATATTAAGAAACACCT 1066 CA G
AGG TTTC TAATATGAT
||| |||||
TCC AAAG ATTATACTG
AC A
GAM197 LOC149910 3' AGAACTTATTTACCATGAAAT 3140 AAT__ TA
GCCT AGGCATTCGT ATGA TTCT
||||||| |||||
TCCGTAAAGTA TATT AAGA
CCATT TC
GAM197 LOC222171 3' GAATATTTACACAATGCCT 3575 TC ATAT
AGGCATT GTA GATATTC
||| ||| |||||
TCCGTAA CAT TTATAAG
CA ____
GAM198 ZNF24 3' GACAAATACATTATTCCTG 1342 _ AA
TAGAAATAATG AT GTC
||||||| || |||
GTCTTATTAC TA CAG
A AA
GAM198 ALS2CR12 3' GATGGTTGGCACACCATTCTG 2471 AA ATAAGT
TA TATAGAAAT TG CCATC
||||||| || |||||
ATGTCTTA AC GGTAG
CC ACGGTT
GAM198 FLJ10508 3' GATGGCTCTTATCATCATCTT 1783 A A T_
ATA TATAGA AT ATGATAAG CCATC
||||||| || |||||
ATATTT TA TACTATTG GGTAG
C C TC
GAM198 FLJ13197 3' GATTCCATCATTATTCCCTA 2072 A A
TAG AATAATGAT AGTC
||| ||||| |||||

ATC TTATTACTA TTAG
C C
GAM198 FLJ21934 3' GATGATGTCATTACTTCTATA 2085 A A_
TATAGAA TAATGATA GTC
|||||| ||||| |||
ATATCTT ATTACTGT TAG
C AG
GAM198 FLJ23132 3' ATGGACTTAATCTCTG 3691 AATAAT _
TAGA GAT AAGTCCAT
||| ||| |||||
GTCT CTA TTCAGGTA
A
GAM198 KIAA0470 3' ATGGACTTCTTCATCTGTA 1555 AATAA T_
TATAGA TGA AAGTCCAT
||||| ||| |||||
ATGTCT ACT TTCAGGTA
TC
GAM198 LEPROTL1 3' GCTGCGTATTATTTCTATA 1620 ATA
TATAGAAATAATG AGT
||||||| |||
ATATCTTATTAT TCG
GCG
GAM198 LYSAL1 5' GACCCCAGCATTATTCCTATA 1164 ATAA_
TATAGAAATAATG GTC
||||||| |||
ATATCTTATTAC CAG
GACCC
GAM198 RAB40A 5' GATGGATGCATGCATTATTC 3229 ATAA_
GAAATAATG GTCCATC
||||||| |||||
CTTTATTAC TAGGTAG
GTACG
GAM198 STK38L 3' GATAGGGTTTCATTTATTC 2845 _ TA GT _
TA TATAGAAATAA TGA A CC ATC
||||||| ||| | |||||
ATATCTTATTACT T GG TAG
T __ TG A
GAM198 ZNF363 3' GATAGACTTATCATAGCTCTAT 2974 AA A C
A TATAGA TA TGATAAGTC ATC
||||| ||| ||||| |||
ATATCT AT ACTATTCAG TAG
CG _ A
GAM198 LOC146481 3' GACAGTCATGCATTCTATA 3093 A_ AA
TATAGAAAT ATGAT GTC
||||||| ||||| |||
ATATCTTA TACTG CAG
CG A_
GAM198 LOC152008 3' ATGGAGGCATTATTC 3165 ATAAG
TAGAAATAATG TCCAT
||||||| |||||

ATCTTTATTAC AGGTA
GG_____
GAM198 LOC153020 3' GATGGACCCTTCAAGCAATTTC 3178 AA__ TAA
TATA TATAGAAAT TGA GTCCATC
|||||| ||| |||||
ATATCTTTA ACT CAGGTAG
ACGA TCC
GAM198 LOC199786 3' GCTTAAGCCATTATTTCTG 3433 A__
TAGAAATAATG TAAGT
||||||| |||||
GTCTTTATTAC ATTGCG
CGA
GAM198 LOC220766 3' ATGGACTTCTTCATCTGTA 3498 AATAA T__
TATAGA TGA AAGTCCAT
||||| ||| |||||
ATGTCT ACT TTCAGGTA
TC
GAM199 ADAM12 3' CTAGAGCACTGCCACCAAGTA 1029 A A AAT __
TACT GGT GCA TG TCTAG
||||| ||| |||||
ATGA CCA CGT AC AGATC
_ C C__ G
GAM199 HOXC13 3' CTAGATGTAGATGCTGCCTA 2538 AAT__
TAGGTAGCA TGTCTAG
||||||| |||||
ATCCGTCGT GTAGATC
AGAT
GAM199 NRIP1 3' CTAGACAATTCTTCTA 2549 T C
TAGG AG AAATTGTCTAG
||| || |||||||
ATCT TC TTTAACAGATC

— —
GAM199 RRM2B 3' CTAACAAATTGCATTTA 2798 A C
TAGGT GCAAATTGT TAG
||||| ||||| |||
ATTTA CGTTAACAA ATC
_ A
GAM199 BIRC4 3' TTAGCATTGCTACCAAGTA 806 A TT
TACT GGTAGCAAAT G CTAG
||||||| | |||||
ATGA CCATCGTTA C GATT
A --
GAM199 FLJ11301 3' GCGGTATTTACTACCTAG 1822 C __
CTAGGTAG AAAT TGT
||||||| ||| |||
GATCCATC TTTA GCG
A TG
GAM199 LAP1B 5' AGGCAGGTTGCTACACAG 2696 AG __
CT GTAGCAAAT TGTCT
|| ||||| |||||

GA CATCGTTG ACGGA
 CA G
 GAM199 MGC11324 3' TAGATCTGTACCTAGTA 2273 G AATT
 TACTAGGTA CA GTCTA
 ||||| || |||||
 ATGATCCAT GT TAGAT
 _ C_

GAM199 PRO2958 3' ACACCTTGCTACCAGTA 1841 A T_
 TACT GGTAGCAAA TGT
 ||||| ||||| |||||
 ATGA CCATCGTT ACA
 _ CC

GAM199 SH3BGRL2 3' CTAGACAAAGCTACCCAG 2208 A AAA
 CT GGTAGC TTGTCTAG
 ||||| ||||| |||||
 GA CCATCG AACAGATC
 C A_

GAM199 LOC144997 3' CTAGACAGATATCCACTTAGTA 3271 AGCAAA
 TACTAGGT TTGTCTAG
 ||||| ||||| |||||
 ATGATTCA GACAGATC
 CCTATA

GAM199 LOC148809 3' CTAGACAAACATGACCCTACC 3125 AA
 GGTAG CA TTGTCTAG
 ||||| ||||| |||||
 CCATC GT AACAGATC
 CCA AC

GAM199 LOC219540 3' CTAGACAATTTTTTAG 3612 TAGC
 CTAGG AAATTGTCTAG
 ||||| ||||| |||||
 GATTT TTTAACAGATC
 TT_

GAM200 PTGER3 3' CTATAGAGTATTCCATAATTG 790 T AC _
 AA TTCAA TTAT GGAT TTCTATAG
 ||||| ||||| |||||
 AAGTT AATA CTTA GAGATATC
 T C_ T

GAM200 SIRT1 3' CTATAGATGATATTTAAATTG 1416 TACGGATT
 AA TTCAATTAA TCTATAG
 ||||| |||||
 AAGTTAAAT AGATATC
 TTTATAGT

GAM200 FLJ10898 3' AGAAACTGTTAAATTGAA 2526 T A
 TTCAATTAA ACGG TTTCT
 ||||| |||||
 AAGTTAAAT TGTC AAAGA

GAM201 FLJ10511 3' ATGCCTATAATACCATAATGCC 1784 C _ ACACC
 AG CT GT TTATG ATAGGCAT
 ||||| |||||

GA CG AATAC TATCCGTA
 C T CATAA
 GAM201 KIAA1462 3' ATGCCTATAATTAGGAAGGAGT 3521 G A CACC
 ACTC TTT TGA ATAGGCAT
 ||||| ||||| |||||
 TGAG AAG ATT TATCCGTA
 G G AA_

GAM201 MESDC2 3' CCCTGGTGGCATAAACGAGT 2950 A TA
 ACTCGTTATG CACCA GG
 ||||||| ||||| ||
 TGAGCAAATAC GTGGT CC
 G C_

GAM201 LOC149620 5' ATGCCTACAAAGGAAATGAGT 3135 ATGACACCA
 ACTCGTT TAGGCAT
 ||||| |||||
 TGAGTAAA ATCCGTA
 GGAAAC_

GAM201 LOC219988 5' ATGCCTACAGTGTCTGTATTAG 3534 GTT _ CA
 A TC TAT GACAC TAGGCAT
 || ||||| |||||
 AG ATG CTGTG ATCCGTA
 ATT T AC

GAM202 BHMT2 3' CTGAAATAATCGAACAGGAAA 1730 A TA
 TTTCT GTTC ATTATTCAG
 ||||| |||||
 AAAGG CAAG TAATAAAGTC
 A C_

GAM202 COL15A1 3' AAATAATCTGAAACTAGAAA 862 _ TA
 TTTCTAGTT C ATTATT
 ||||| | |||||
 AAAGATCAA G TAATAAA
 A TC

GAM202 PDGFRA 3' TCTGAAATAATGGGATTAGAAA 1280 A
 TTTCTAGTTCTA TTATTCAGA
 ||||||| |||||||
 AAAGATTAGGGT AATAAAGTCT

GAM202 DORFIN 5' TTCTGGCCTCCAGAACTAGA 1631 AATTATT
 TCTAGTTCT TCAGAA
 ||||| |||||
 AGATCAAGA GGTCTT
 CCTCC_

GAM202 FLJ20034 5' TCTGTGATAAGCAGAACTAGAA 1732 AA T
 A TTTCTAGTTCT TTATT CAGA
 ||||||| |||||
 AAAGATCAAGA AATAG GTCT
 CG T

GAM202 KIAA0831 5' TCTGCATTGAACTAGAAA 1589 T TATTT
 TTTCTAGTTCAAT CAGA
 ||||||| |||||

AAAGATCAAG TTA GTCT
 |
 C
GAM202 MBLL39 3' TTCTGAAATAATCAGCAGAAA 1243 A CTA
 TTTCT GTT ATTATTCAGAA
 |||||| |||||||||
 AAAGA CGA TAATAAAGTCTT
 |
 C
GAM202 TSP-NY 3' CTGGGAGCAGAACTAGAAA 2261 AATTA TT
 TTTCTAGTTCT T CAG
 ||||||| | |||
 AAAGATCAAGA A GTC
 CG__ GG
GAM202 LOC112840 3' CTGAAAGTAGAACTGAAA 2384 T ATTA
 TTTC AGTTCTA TTTCAG
 ||||||| |||||
 AAAG TCAAGAT AAAGTC
 |
 G
GAM202 LOC136895 3' AAATATTAGAACTAGAAA 2458 T
 TTTCTAGTTCTAAT ATTT
 ||||||| |||||
 AAAGATCAAGATTA TAAA

GAM202 LOC145790 5' TTCTGAAATAATCTCTGGAGG 3083 TTCTA
 TTTCTAG ATTATTCAGAA
 |||||| |||||||||
 GGAGGTC TAATAAAGTCTT
 TC__
GAM202 LOC151040 3' TCAGGGATCTAGAACTAGAAA 3153 ATT TT A
 TTTCTAGTTCTA AT C GA
 ||||||| || | |||
 AAAGATCAAGAT TA G CT
 C__ GG A
GAM202 LOC157869 3' TTCTGAAATAATTCAGC 3207 CT_
 GTT AATTATTCAGAA
 ||| |||||||||
 CGA TTAATAAAGTCTT
 ACT
GAM202 LOC222028 3' TTCTAAGTAGTTAAAATTAGAA 3631 C C
 A TTTCTAGTT TAATTATTT AGAA
 ||||||| |||||
 AAAGATTAA ATTGATGAA TCTT
 A _
GAM202 LOC222252 3' TCAGGGATCTAGAACTAGAAA 3652 ATT TT A
 TTTCTAGTTCTA AT C GA
 ||||||| || | |||
 AAAGATCAAGAT TA G CT
 C__ GG A
GAM203 FLJ20485 3' TGTGATGGAGTATAC 1875 CGA T
 GTATACT CCATC ACG
 |||||| ||||| |||

CATATGA GGTAG TGT

GAM203 LOC132617 3' CGTAGATGATGTGAATGA 3040 A TCGAC
TCGT TAC CATCTACG
|||||| |||||
AGTA GTG GTAGATGC
A TA_

GAM204 PER2 3' AGATATGAAATAAGCTCTCA 2013 A T AC
A AG GC GTTTACATATCT
||| ||| |||||
A TC CG TAAATGTATAGA
C T AA

GAM204 SLC14A2 3' AGATATGTTAGTTAGACTTT 1360 GC_ GTTT
ATA TATAAAGT AC ACATATCT
|||||| || |||||
ATATTCA TG TGTATAGA
GATT ATT_

GAM204 C20orf82 3' ATGAAACGCCAACCTTA 3316 A CA
TAA GTG CGTTTACAT
||| ||| |||||
ATT CAC GCAAATGTA
C CC

GAM204 DKFZp566D234 3' ATATGAAATTATGCTTTA 2610 CAC
TAAAGTG GTTTACATAT
|||||| |||||
ATTCGT TAAATGTATA
AT_

GAM204 EFS2 3' AGACATGGGTGTGCACCTTA 1257 A TTTA A
TAA GTGCACG CAT TCT
||| ||||| ||| |||
ATT CACGTGT GTA AGA
C GG_ C

GAM204 FLJ13194 3' ATGTTTATGCACACTTTATA 2140 CA TT
TATAAAGTG CGT ACAT
|||||| ||| |||
ATATTCAC GTA TGTA
AC TT

GAM204 ZNF291 3' AGATATGGCATGTACTTTA 1930 C TTA
TAAAGTGCA GT CATATCT
|||||| ||| |||||
ATTCATGT CG GTATAGA
A _

GAM204 LOC157503 3' ATGAAACCATGCACTTGTA 3380 C_ A
TATAAAGTGCA GTTT CAT
||||||| ||| |||
ATGTTTCACGT CAAA GTA
AC _

GAM204 LOC254431 3' AGATATGAAACACTGGTAC 3716 AC_
GTGC GTTTACATATCT
||| ||||| |||||

CATG CAAATGTATA
GTCA
GAM205 BRCA1 3' CTAATGAAGTGGGCTCCA 1390 A A T
TG GA GTCT TTTCATTAG
|| |||| |||||
AC CT CGGG GAAGTAATC
— — T
GAM205 C18orf1 3' AGTGAAGGACCTCTCA 2562 A TT
TGAGA GTCT TTCATT
|||| |||||
ACTCT CAGG AAGTGA
C —
GAM205 CENTD1 3' GCTAATGATGACATCTCA 1614 A TTTT
TGAGA GTC TCATTAGC
|||| |||||
ACTCT CAG AGTAATCG
A T —
GAM205 CENTD1 3' GCTAATGATGACATCTCA 2473 A TTTT
TGAGA GTC TCATTAGC
|||| |||||
ACTCT CAG AGTAATCG
A T —
GAM205 CPNE3 3' CTAATGAAAAACTGCTTA 1068 A CT
TGAG AGT TTTTCATTAG
|||| |||||
ATTC TCA AAAAGTAATC
G —
GAM205 EPB72 3' CTAATGAAAAACATTACTC 1086 A C
GAG AGT TTTTCATTAG
||| |||||
CTC TTA AAAAAGTAATC
A C
GAM205 GBP1 3' GCTAATGAAGAAAACTTCTC 894 C
GAGAAGT TTTTCATTAGC
|||| |||||
CTCTCA AAGAAGTAATCG
A
GAM205 MMP2 3' GCCAATGGAGACTGTCTCA 1124 — TTT A
TGAGA AGTCTT CATT GC
|||| |||||
ACTCT TCAGAG GTAA CG
G — C
GAM205 PSCD4 3' CTAACAGGAAACACTTCTCA 1447 C CA
TGAGAAGT TTTTT TTAG
|||| |||||
ACTCTCA AAAGG AATC
C AC
GAM205 SLC7A6 3' GCTAATGAAATGGAACCTC 1077 AAG T
GAG TCT TTTCATTAGC
||| |||||

CTC GGG AAAGTAATCG
CAA T
GAM205 XKRY 5' CTAATGAAAATTATTCTC 1142 GTCT
GAGAA TTTTCATTAG
||||| |||||
CTCTT AAAAGTAATC
ATT_

GAM205 XKRY 5' CTAATGAAAATTATTCTC 2551 GTCT
GAGAA TTTTCATTAG
||||| |||||
CTCTT AAAAGTAATC
ATT_

GAM205 C1orf16 3' GCCAATGGGAACCTCTCA 1568 CTT TT A
TGAGAAAGT T CATT GC
|||||| | |||||
ACTCTTCA A GTAA CG
__ GG C

GAM205 C3orf4 3' GCTAATGTCTGTTAGACTTTTC 1890 TTTT__
A TGAGAAGTCT CATTAGC
||||||| |||||
ACTTTTCA GATAATCG
TTGTCT

GAM205 FLJ10483 3' GCCAATGAAAATGTGCTTC 1781 CT_ A
GAAGT TTTTCATT GC
||||| ||||| ||
CTTCG AAAAGTAA CG
TGT C

GAM205 FLJ12568 3' GCTAATGAAAATGTTTCT 2122 TCT
AGAAG TTTTCATTAGC
||||| |||||
TCTTT AAAAGTAATCG
TGT

GAM205 FLJ20340 3' GCTTGAAAAACTTTCA 1750 CT TT
TGAGAAGT TTTTCA AGC
||||| ||||| |||
ACTTTTCA AAAAGT TCG
__ T_

GAM205 FLJ20727 5' GCTAATGGACTTGACTCTCA 1769 A TTT
TGAGA GTC TTCATTAGC
||||| |||||
ACTCT CAG AGGTAATCG
__ TTC

GAM205 FLJ20736 3' CTAATGGACATCTTCTCA 1770 TCTTT
TGAGAAG TTCATTAG
||||| |||||
ACTCTTC AGGTAATC
TAC__

GAM205 PDE1C 3' GCTAATGACCTGGCTTC 1172 A TTTT
TGAGA GTC TCATTAGC
||||| |||||

ACTTT CGG AGTAATCG
_ TCC _
GAM205 TOB2 5' GCTAAGGGTGAACCTTTCA 3680 C T A
TGAGAAGT TT TTC TTAGC
|||||| || |||||
ACTTTCA AG GGG AATCG
A T _
GAM205 TSC22 3' CTAATGAAATGGATTCCCCA 1264 A T
TG GAAGTCT TTTCATTAG
|| ||||| |||||
AC CTTTAGG AAAGTAATC
C T
GAM205 TSP-NY 3' GCTAAGAATGAAAAAGACTTCT 2262 —
C GAGAAGTCTTTTCAT TAGC
||||||| |||||
CTCTTCAGAAAAAGTA ATCG
AGA
GAM205 TUCAN 3' GCTAACAAAAGCTTCTCA 1598 T TCA
TGAGAAG CTTTT TTAGC
|||||| |||||
ACTCTTC GAAAA AATCG
— C __
GAM205 LOC138241 5' GCCAATGGGGGAATTCTCA 3019 GTC TT A
TGAGAA TTT CATT GC
||||| III |||||
ACTCTT AGG GTAA CG
A__ GG C
GAM205 LOC152345 3' AATGGAGAGACTCCG 3170 A T
TG GAAGTCTTT CATT
|| ||||| |||||
GC CTTCAGAGAG GTAA
— —
GAM205 LOC154214 5' CTAATGAAAAGGACCTTA 3189 AA
TGAG GTCTTTTCATTAG
||| ||||| |||||
ATTC CAGGAAAAGTAATC
— —
GAM205 LOC154790 5' AATGAAAAGAACCTCCC 3192 A CT
TG GAAGT TTTTCATT
|| ||| |||||
AC CTTCA AAAAGTAA
C AG
GAM205 LOC158427 3' CTAATGAAAATAACTCCC 2478 A A CT
TG GA GT TTTTCATTAG
|| ||| |||||
AC CT CA AAAAGTAATC
C _ AT
GAM205 LOC161003 5' AGTATAAAAAGCTTCTCA 2520 T TC
TGAGAAG CTTTT ATT
|||||| ||||| |||

ACTCTTC GAAAA TGA
_ TA
GAM205 LOC200830 3' GCTAATGGGCTGACTACTCA 3480 A TTT
TGAG AGTC TTCATTAGC
||| |||||
ACTC TCAG GGGTAATCG
A TC_
GAM205 LOC221421 3' GCTAATGAAAGAGATTCT 3558 G
AGAA TCTTTTCATTAGC
|||||||||||
TCTT AGAGAAAGTAATCG

GAM205 LOC257017 5' CTAAGTTAACACTTTCA 3736 TTTCA
TGAGAAAGTCTT TTAG
||||||| |||
ACTTTCAAGAA AATC
TTG_
GAM205 LOC257353 5' GCTAATAATGATGCCCTCTCA 3738 A T TTC
TGAGA GTC TT ATTAGC
|||| ||| |||
ACTCT CGG AG TAATCG
C T TAA
GAM205 LOC90459 3' GCCAATGAATTCGCTTTCA 2642 CTTT_ A
TGAGAAAGT TTCATT GC
||||||| ||||| |||
ACTTTTCG AAGTAA CG
TCTTT C
GAM206 CXADR 3' TATTGAGATGACACTAGGTGC 820 _ CA CCC
GCAC TAG TC TTTCAATA
|||| ||| |||
CGTG ATC AG AGAGTTAT
G AC T_
GAM206 EPB72 3' TATTGAGGATTGAGCCAGTGC 1087 A A CCC
GCACT GC TC TTTCAATA
|||| ||| |||||
CGTGA CG AG GGAGTTAT
C _ TTA
GAM206 FCAR 5' ATTGAAAGGAGAGCAACGG 880 CACTA A C
CCG GC TC CCTTTCAAT
||| ||| |||||
GGC CG AG GGAAAGTTA
AA__ _ A
GAM206 FCAR 5' ATTGAAAGGAGAGCAACGG 2400 CACTA A C
CCG GC TC CCTTTCAAT
||| ||| |||||
GGC CG AG GGAAAGTTA
AA__ _ A
GAM206 FCAR 5' ATTGAAAGGAGAGCAACGG 2401 CACTA A C
CCG GC TC CCTTTCAAT
||| ||| |||||

GGC CG AG GGAAAGTTA
 AA__ _ A
 GAM206 FCAR 5' ATTGAAAGGAGAGCAACGG 2402 CACTA A C
 CCG GC TC CCTTCAAT
 |||| |||||
 GGC CG AG GGAAAGTTA
 AA__ _ A
 GAM206 FCAR 5' ATTGAAAGGAGAGCAACGG 2403 CACTA A C
 CCG GC TC CCTTCAAT
 |||| |||||
 GGC CG AG GGAAAGTTA
 AA__ _ A
 GAM206 FCAR 5' ATTGAAAGGAGAGCAACGG 2404 CACTA A C
 CCG GC TC CCTTCAAT
 |||| |||||
 GGC CG AG GGAAAGTTA
 AA__ _ A
 GAM206 FCAR 5' ATTGAAAGGAGAGCAACGG 2406 CACTA A C
 CCG GC TC CCTTCAAT
 |||| |||||
 GGC CG AG GGAAAGTTA
 AA__ _ A
 GAM206 KCNAB1 3' TGAAAATGCTAGTGGG 2585 G CCCC
 CC CACTAGCAT TTTCA
 ||||||| |||||
 GG GTGATCGTA AAAGT

 - -
 GAM206 NCOA6 3' TATTGAAAGGAGCTAATGC 1468 C ATCC
 GCA TAGC CCTTCAATA
 |||| |||||
 CGT ATCG GGAAAGTTAT
 A A__
 GAM206 SDHC 3' TATTGAAAGAAGAGAGGTGGGG 2856 G AGCA CC
 CC CACT TC CCTTCAATA
 |||| |||||
 GG GTGG AG GAAAGTTAT
 G AG__ AA
 GAM206 CBLN1 5' GGAGGGGACGCTAGTCGCGG 1101 _ A
 CCGC ACTAGC TCCCCTTT
 ||||| |||||
 GGCG TGATCG AGGGGAGG
 C C
 GAM206 CSTF2 3' TATTGAAAAAAGATGACCTGC 819 CTAG CCC
 GCA CATC TTCAATA
 |||| |||||
 CGT GTAG AAAGTTAT
 CCA_ AAA
 GAM206 GS3955 5' AAAGGGGGTGCAGCGCGG 1953 A A
 CCGC CT GCATCCCCTTT
 |||| |||||

GGCG GA CGTGGGGAAA
C _
GAM206 KIAA0184 3' ATTGAAAGAGGTGTGCTGG 2715 TC _
CTAGCA CC CTTTCAAT
||||| |||||||||
GGTCGT GG GAAAGTTA
GT A

GAM206 MGC14697 5' GTTGAAGGACACCAGCTGCGG 2276 CTA ATCCC_
CCGCA GC CTTTCAAT
||||| |||||||||
GGCGT CG GGAAGTTG
_____ ACCACA

GAM206 RRN3 3' AGGTGGAAGTTGCTAGTGC 1827 _____ -
GCACTAGCA TCC CCT
||||||| |||||
CGTGATCGT AGG GGA
TGA T

GAM206 WDR13 5' AAGGAATGCTAGGCGG 1759 A CC
CCGC CTAGCAT CCTT
|||| ||||| |||||
GGCG GATCGTA GGAA
_ A_

GAM206 LOC219287 3' GAAAGAGGGATGCTACACGG 3609 CAC -
CCG TAGCATCCC CTTTC
||| |||||||||
GGC ATCGTAGGG GAAAG
AC_ A

GAM206 LOC221979 5' ATTGAAACTGCTAGTG 3571 TCCCC
CACTAGCA TTTCAAT
||||||| |||||
GTGATCGT AAAGTTA
C_____

GAM206 LOC255328 3' TATTGAAAGGGCTGCACCATGC 3710 CTA_ TC
GCA GCA CCCTTCAATA
||| ||| |||||||||
CGT CGT GGGAAAGTTAT
ACCA C_

GAM206 LOC257115 3' TATTGAAAGGAAAGTGCTATCG 3709 CAC CC_
CG TAGCAT CCTTCAATA
||| ||||| |||||
GC ATCGTG GGAAAGTTAT
T_ AAA

GAM206 LOC51145 3' ATTGAAAGGGAAATGTGTCA 1666 C TAGCA
C GCAC TCCCCTTCAAT
| ||||| |||||||||
A TGTG AGGGGAAAGTTA
C TAA_

GAM207 BCL11A 3' AAACTAGAACAGGTATAT 2018 TA
ATATACCTGTTTT TTT
||||||| |||||

TATATGGACAAGA AAA
TC
GAM207 C8orf1 3' GAAACCTTGACAGGTACTTCA 1099 TA TTTA
TGA TACCTGTT TTTC
||| ||||| ||||
ACT ATGGACAG AAAG
TC TTCC

GAM207 KPNA1 3' AAATAAAAACAGTATC 3159 TAC
GATA CTGTTTTATT
||| |||||||||
CTAT GACAAAAATAAA

GAM207 NRXN1 3' AAATAAAAACAAGTATCTCA 2457 T C
TGA ATAC TGTTTTATT
||| ||||| |||||
ACT TATG ACAAAAATAAA
C A

GAM207 NRXN1 3' AAATAAAAACAAGTATCTCA 1158 T C
TGA ATAC TGTTTTATT
||| ||||| |||||
ACT TATG ACAAAAATAAA
C A

GAM207 PCDHGA8 3' AAATAATTAAAGGTGTATCA 1459 GTTT__
TGATATACCT TTATT
||||||| |||||
ACTATGTGGA AATAAA
ATTTTT

GAM207 SNX5 3' GAAATATCTACAGGTATAT 1500 TTT
ATATACCTGT TATTTC
||||||| |||||
TATATGGACA ATAAG
TCT

GAM207 BNIP2 3' GAAATATGCAGGTATAT 2762 TTT
ATATACCTGT TATTTC
||||||| |||||
TATATGGACG ATAAG
T__

GAM207 DRIL2 3' AAATGAAAACAGATCA 1305 ATAC
TGAT CTGTTTTATT
||| |||||||||
ACTA GACAAAAGTAAA

GAM207 DVS27 3' AAATAAAAGCAGAATGTATATC 2335 __
A TGATATAC CTGTTTTATT
||||||| |||||
ACTATATG GACGAAAATAAA
TAA

GAM207 FLJ12960 3' GAAGGGGGAGCAGGCACATCA 2074 ATA TA
TGAT CCTGTTT TTTC
||| ||||| ||||

ACTA GGACGAGG GAAG
CAC GG
GAM207 FLJ20793 3' GAATACTAACAGGTATTC 3542 T TT
TGA ATACCTGTT TATT
||||||| |||||
ACT TATGGACAA ATAAG
T TC
GAM207 KIAA0040 3' GAAATAAAATTAAAGGTATA 1515 GT__
TATACCT TTTTATTTC
||||| |||||||
ATATGGA AAAATAAAG
AATT
GAM207 KIAA1349 3' GAAATAAAAGCAGCATCA 2893 ATAC
TGAT CTGTTTTATTTC
||||| |||||||
ACTA GACGAAAATAAAG
C__
GAM207 KIAA1373 3' AAATATTAACAGGTATAT 2903 TT
ATATACCTGTT TATT
||||||| |||||
TATATGGACAA ATAAA
TT
GAM207 SCDGF-B 3' AAGTAGAAAGGTATATCA 2147 GT
TGATATACCT TTTTATT
||||| |||||||
ACTATATGGA AAGATGAA
—
GAM207 SCDGF-B 3' AAGTAGAAAGGTATATCA 2314 GT
TGATATACCT TTTTATT
||||| |||||||
ACTATATGGA AAGATGAA
—
GAM207 LOC121441 3' AAATAAAAACAGGAATATTA 2991 A
TGATAT CCTGTTTTATT
||||| |||||||
ATTATA GGACAAAAATAAA
A
GAM207 LOC157729 3' AAATAAAGATAGCATGTCA 3205 AC
TGATAT CTGTTTTATT
||||| |||||||
ACTGTA GATAGAAATAAA
C__
GAM207 LOC200339 3' GAAGTTCACAGGTATATC 3475 TTTT
GATATACCTGT ATTTC
||||||| |||||
CTATATGGACCA TGAAG
CT__
GAM207 LOC221300 3' AAATGGCAAACAGGTATAT 3545 —
ATATACCTGTT TTATT
||||||| |||||

TATATGGACAAA GGTAAA
 C
 GAM207 LOC257235 5' GAAACCATTGCAGGTATTC 3728 T TTTTA
 TGA ATACCTGT TTTC
 ||||| |||||
 ACT TATGGACG AAAG
 T TTACC
 GAM207 LOC93333 5' AAATGGTTAAGGGTATATCA 2932 GTTT
 TGATATACCT TTATTT
 ||||| |||||
 ACTATATGGG GGTAAA
 AATT
 GAM208 PCDH7 3' AACAGTATTAATGCAGAAATG 938 A _
 CGT TC GCATTAATACTGTTT
 ||| |||||||||
 GTA AG CGTAATTATGACAAA
 A A
 GAM208 TRC8 3' AACAGTATCAATGTTGA 1365 _ A
 TCG CATT ATACTGTTT
 ||| ||| |||||
 AGT GTAA TATGACAAA
 T C
 GAM208 LOC145225 3' AACAGTATTAACCCCTGC 3275 ____
 GCA TTAATACTGTTT
 ||| |||||||||
 CGT AATTATGACAAA
 CCC
 GAM209 BHMT2 3' AGCATTATTGAAATAATGTTT 1729 C__ TGG
 A TAGACATTCA GATGCT
 ||||||| || |||||
 ATTTGTAAT GT TTACGA
 AAA TA_
 GAM209 CANX 3' AGCATCCTGATTAAATGTCTG 3409 CCA
 TAGACATTCA TGGGATGCT
 ||||||| |||||
 GTCTGTAAT GTCCTACGA
 TA_
 GAM209 COPG2 3' AGCAGATCAAGCAAATGTCTA 3194 ACCA GA
 TAGACATTCA TGG TGCT
 ||||| ||| |||||
 ATCTGTAAT ACT ACGA
 CGA_ AG
 GAM209 MS4A1 3' CATTACAAATGTTAGT 711 ACCA GG
 ACTAGACATTCA TG ATG
 ||||||| || |||
 TGATTTGTAAT AC TAC
 C__ TT
 GAM209 SEL1L 3' CATGTGTATTAATGTCTA 1180 ____
 TAGACATT TAC CATG
 ||||| ||| |||||

ATCTGTAA ATG GTAC
 TT T
 GAM209 TPK1 3' CATCCTTAAATGTCTA 1988 CCAT
 TAGACATTAGGGATG
 ||||| |||||
 ATCTGTAAAT TCCTAC

——————
 GAM209 CYorf14 3' CTGTGGGCAATAAATGTCTG 1839 ——————
 TAGACATTAGCATGG
 ||||| |||||
 GTCTGTAAAT GGTGTC
 AACG

GAM209 HSPC228 3' AGCATTTCATAAAATGTTAGT 1688 CCA GG
 ACTAGACATTAGT TG ATGCT
 |||||||| || |||||
 TGATTTGTAAAT AC TACGA
 — TT

GAM209 MGC1127 3' AGCTGGGTAAATAAATGTCTA 2336 —————— ATGGGAT
 TAGACATT TACC GCT
 ||||| |||| |||||
 ATCTGTAA ATGG CGA
 ATA GT ——————

GAM209 SLC16A4 3' AGCATTCTGAGAAATGTCTA 1144 ACCA
 TAGACATTAGGGATGCT
 ||||| |||||
 ATCTGTAAA GTCTTACGA
 GA ——————

GAM209 LOC147180 5' CACCTGTTAAATGTCTG 3292 CC A
 TAGACATTAGGGTG
 ||||| |||||
 GTCTGTAAAT TGTCC AC
 T ——————

GAM209 LOC148195 5' GCATCCCATTGGTGTCAAGT 3297 A ATTT ——————
 ACT GAC ACCA TGGGATGC
 ||||| |||||
 TGA CTG TGGT ACCCTACG
 — —————— T

GAM209 LOC158572 3' AGCATCCTTCAATAAATGCCT 3221 A CCAT ——————
 G TAG CATTAGGGATGCT
 ||||| |||||
 GTC GTAAAT TCCTACGA
 C AACTT

GAM209 LOC201595 3' AGCACTGCTGTAAATGTCTAG 3453 CATG A
 CTAGACATTAC GG TGCT
 ||||| |||||
 GATCTGTAAATG TC ACGA
 TCG ——————

GAM209 LOC203427 5' CATTAGGAAGCAAGATGTCTA 3464 ACCATG ——————
 G CTAGACATTGGATG
 ||||| |||||

GATCTGTAGA TTTAC
ACGAAGGA

GAM210 PDE1A 3' ATCAGCATGAAAACATCCTA 1171 AT _ GA
TAG TGTTTCA GT GAT
||| ||||| |||||
ATC ACAAAAGT CG CTA
CT A A_

GAM210 ELAC1 3' AATCATCTCACCCCGAAATGCA 3506 _ A_
TGT TTTC GTGAGATGATT
||| |||| |||||||
ACG AAAG CACTCTACTAA
T CCC

GAM210 LOC154790 5' AATCAGATCATATGAAAACAAT 3191 _ GA
CTA TAGATTGTTTCA GTGA TGATT
||||||| ||||| |||||
ATCTAACAAAAGT TACT ACTAA
A AG

GAM210 LOC158434 3' CAGTCACTAAAAACAATC 3389 C GA
GATTGTTT AGTGA TG
||| ||||| |||
CTAACAAAA TCACT AC
A G_

GAM211 MAP3K5 3' TCTGAGTAGAAATGCGT 1261 A TT
ACGCAT TTCTACTC GGA
||||| ||||| |||
TGC GTA AAGATGAG TCT

GAM211 DKFZP564F0522 3' TAATTCCACAGTCAGAACATGC 2825 A _ CT
GCAT TTCT ACT TGGAATTA
||| ||||| |||||
CGTA AAGA TGA ACCTTAAT
C C C_

GAM211 GPCR150 3' TAATTCCAAGAAGTTTTATAG 1496 GC TTCT _
T AC ATA ACT CTTGGAATTA
||| ||||| |||||
TG TAT TGA AACCTTAAT
A_ TTT_ A

GAM211 SLC26A7 3' TAATTCAAGTATAGAATATGC 2340 CT TG
GCATATTCTA CT GAATTA
||||| |||||
CGTATAAGAT GA CTTAAT
AT _

GAM211 SLC6A14 3' TAATTCAAATAGAATATG 1369 CTC
CATATTCTA TTGGAATTA
||||| |||||
GTATAAGAT AACTTTAAT
A_

GAM211 LOC116228 3' TAGTTCTGAATTAAATATGC 2980 C CTC TG
GCATATT TA T GAATTA
||||| || | |||||

CGTATAA AT A CTTGAT
 A TA_ GT
 GAM212 CCNC 3' ATAATGTCTTCAGTGGAACAC 1192 A_____ III
 GTGTTCCA ACATTA T
 ||||| ||||| I
 CACAAGGT TGTAAT A
 GACTTC III
 GAM212 MSL3L1 5' TAATGGTTGGAACAGAA 1331 G A
 TTC TGTTCCAA CATTA
 ||| |||||||
 AAG ACAAGGTT GTAAT
 G
 -
 GAM212 THBS1 3' TAATGTTTGACACTGAA 1004 _ TC
 TTC GTGT CAAACATTA
 ||| |||||
 AAG CACA GTTTGTAAT
 T C_
 GAM212 CSRP3 3' TAATGCTTGGAAATGGGAG 1031 G A
 TTC TGTTCCAA CATTA
 ||| |||||||
 GAG GTAAGGTT GTAAT
 G C
 GAM212 FLJ11181 5' TAATGTTCGGCAAACATGAA 1817 _ A
 TTCGTGTT CC AACATTA
 ||||| |||||||
 AAGTACAA GG TTGTAAT
 AC C
 GAM212 FLJ23132 3' TAATGTTCAACATGAA 3692 CC
 TTCGTGTT AAACATTA
 ||||| |||||||
 AAGTACAA TTTGTAAT
 CC
 GAM212 GAB3 3' TAATGTTGTTACAGAA 2378 G TC
 TTC TGT CAAACATTA
 ||| |||
 AAG ACA GTTTGTAAT
 - TT
 GAM212 MGC13033 3' TAATGTTGGAATGGAG 2198 G
 TTC TGTTCCAAACATTA
 ||| |||||||
 GAG GTAAGGTTGTAAT
 -
 GAM212 PRO0386 5' TAATGTTCTGTGGAACAT 1844 _____
 GTGTTCCA AACATTA
 ||||| |||||||
 TACAAGGT TTGTAAT
 GTC
 GAM212 LOC149351 5' TAATGTGAGGAAAAACACGGA 3132 _____ AA
 TTCGTGT TCC ACATTA
 ||| ||| |||||

AGGCACA AGG TGTAAT
AAA AG
GAM212 LOC163590 3' TAATGTTGGACTTGGAA 2512 T T
TTCG GT CCAAACATTA
|||| || |||||
AGGT CA GGTTTGTAAT
T _

GAM212 LOC256307 3' TAATGCTACATGGAACATGAA 3726 AA_____
TTCGTGTTCCA CATTA
||||||| |||||
AAGTACAAGGT GTAAT
ACATC

GAM212 LOC87769 3' TAATGTTGAGATACGAA 2912 TC A
TTCGTGT CAA CATTA
||||| |||||
AAGCATA GTT GTAAT
GA _

GAM212 LOC89890 3' TAATGTTGAAATACGAA 2574 C
TTCGTGTT CAAACATTA
|||||| |||||
AAGCATAA GTTTGTAAT
A

GAM213 GDF8 5' ACAAGAAAAAGATTATA 1196 CA
TATAATCTTTT TCTTGT
||||||| |||||
ATATTAGAAAAA AGAACCA

GAM213 REGL 3' ACCATATAGAAAAAGATTATA 1306 ATCT A
TATAATCTTTTC TGTG GT
||||||| |||||
ATATTAGAAAAAG ATAC CA
AT_ _

GAM213 DKFZP434J214 3' ACTCAGTGTGGAAAAGA 2586 CTTG
TCTTTTCAT TGAGT
||||||| |||||
AGAAAAGGTG ACTCA
TG_ _

GAM213 KIAA0440 5' CTTTTAAATGAAAAAGATTA 1636 C T
TAATCTTTTCAT TTG GAG
||||||| |||||
ATTAGAAAAAGTA AAT TTC
_ T

GAM213 LOC152756 3' ACTCATGATCCAAAAAAGATTA 3363 CATC TG
TAATCTTTT T TGAGT
||||||| I |||||
ATTAGAAAAA A ACTCA
ACCT GT

GAM213 LOC158428 3' ACTCACATAGGTGAAAAA 2889 -
TTTTTCATCT TGTGAGT
||||||| |||||

AAAAAGTGGAA ACACTCA
 T
 GAM214 BHLHB3 3' TATGTAAGGGGTGAGACACAAC 2162 A A G _
 GTTGTGTCT CA CC CT ACATA
 ||||| || || |||||
 CAACACAGA GT GG GA TGTAT
 _ _ G A
 GAM214 F9 3' GCGTGTGTGTAGACACAC 709 T _ _
 GT GTGTCTACA AC CGC
 || ||||| || |||
 CA CACAGATGT TG GCG
 _ G T
 GAM214 FLJ31737 3' TAGCACTGTAGACACAAC 2504 ACC
 GTTGTGTCTACA GCTA
 ||||||||| |||||
 CAACACAGATGT CGAT
 CA_
 GAM214 KIAA1505 5' GCATTTAGTAGACACCACG 3638 T _ _ CC
 CGT GTGTCTAC AA GC
 ||||| ||||| || |||
 GCA CACAGATG TT CG
 C A TA
 GAM214 PHRET1 3' GGCGCTGTAGACACAAC 1947 AC
 GTTGTGTCTACA CGCT
 ||||||||| |||||
 CAACACAGATGT GCGG
 C_
 GAM214 RYD5 3' AGCAGCCGTGGACACAACG 3103 AACC
 CGTTGTGTCTAC GCT
 ||||||||| |||||
 GCAACACAGGTG CGA
 CCGA
 GAM214 LOC221337 5' TAGTTCAAGTAAACACAATG 3556 C AACC
 CGTTGTGT TAC GCTA
 ||||| ||| |||||
 GTAACACA ATG TGAT
 A AACT
 GAM215 ADCY9 3' GTGGTCATTCAGCCCTA 801 T A
 TAGG GCTGAAAT ACCAC
 ||||| |||||
 ATCC CGACTTTA TGGTG
 _ C
 GAM215 CRAT 3' GTGGGTCACTCCCAGCACCTG 1079 AA A A
 TAGGTGCTG AT ACC CAT
 ||||| || |||||
 GTCCACGAC TA TGG GTG
 CC C _
 GAM215 CRAT 3' GTGGGTCACTCCCAGCACCTG 771 AA A A
 TAGGTGCTG AT ACC CAT
 ||||| || |||||

GTCCACGAC TA TGG GTG
 CC C _
 GAM215 CXCR4 3' CAGGAGTGGGTTGATTCAGCA 1028 AA__ AT
 CCTA TAGGTGCTGAAAT CCAC CTG
 ||||| |||| |||||
 ATCCACGACTTTA GGTG GAC
 GTTG AG
 GAM215 AGMAT 3' CAGACGTGGTGTGGTCACACC 2087 C AAATA_ A
 GGTG TG ACCAC TCTG
 ||||| |||| |||||
 CCAC AC TGGTG AGAC
 _ GTGGTG C
 GAM215 DKFZp434E0519 3' CAGATGCCGGTGGCTCACACCTA 2240 C AATA A
 TAGGTG TGA ACC CATCTG
 ||||| |||| |||||
 ATCCAC ACT TGG GTAGAC
 _ CGG_ C
 GAM215 DKFZp762E1312 5' CAGACATGGCCTTAGTACCTA 1823 AATAA CA
 TAGGTGCTGA CCA TCTG
 ||||| |||| |||||
 ATCCATGATT GGT AGAC
 CC__ AC
 GAM215 FLJ20619 3' CAGTGAGGTAGCATCTA 1760 GAAATA A T
 TAGGTGCT ACC CA CTG
 ||||| |||| |||||
 ATCTACGA TGG GT GAC
 _____ A _
 GAM215 FLJ20716 3' CAGATTGCCACCCCAGCACCTA 1768 AAATAAC C
 TAGGTGCTG CA ATCTG
 ||||| |||||
 ATCCACGAC GT TAGAC
 CCCACC_ _
 GAM215 FRAT1 3' CAGATGTGGCTACTGACATATC 1217 C AAA_ A
 TA TAGGTG TG TA CCACATCTG
 ||||| |||| |||||
 ATCTAT AC AT GGTGTAGAC
 _ AGTC C
 GAM215 KIAA1656 3' CAGATGTGCCATCCCTCCCTG 2729 TGCT AATAA
 TAGG GA CCACATCTG
 ||||| |||||
 GTCC CT GGTGTAGAC
 CTCC ACC_ _
 GAM215 Rab11-FIP3 3' CAGATGTGGTCACCTCAGTCC 1524 T AATA
 GG GCTGA ACCACATCTG
 ||||| |||||
 CC TGACT TGGTGTAGAC
 _ CCAC
 GAM215 TOMM34 3' AGACATGGTTGTTGCACC 1332 TGA CA
 GGTGC AATAACCA TCT
 ||||| ||||| |||

CCACG TTGTTGGT AGA
 _____ AC
 GAM215 LOC146337 3' CAGATGCATCTGTTTCAGCCCT 3285 T ACCA
 A TAGG GCTGAAATA CATCTG
 ||||| ||||| |||||
 ATCC CGACTTTGT GTAGAC
 _____ CTAC

GAM215 LOC147229 3' AGATGCAGGCTCAGCACT 3105 AATAA A_
 GGTGCTGA CC CATCT
 ||||| |||||
 TCACGACT GG GTAGA
 C ____ AC

GAM215 LOC158332 3' GGTACTAATTCAAGCACCTA 3217 A __
 TAGGTGCTGAA TA ACC
 ||||| |||||
 ATCCACGACTT AT TGG
 A CA

GAM215 LOC163131 5' AGATGTGATTACATTACT 3245 C AAA C
 GGTG TG TAA CACATCT
 ||||| |||||
 TCAT AC ATT GTGTAGA
 T ____ A

GAM215 LOC221423 3' AGATGTGGCTACAACAT 3551 C AAA A
 GTG TG TA CCACATCT
 ||||| |||||
 TAC AC AT GGTGTAGA
 A ____ C

GAM215 LOC222182 5' CAGACATGTGCCAGCACCT 3639 AAATAAC __
 AGGTGCTG CACA TCTG
 ||||| |||||
 TCCACGAC GTGT AGAC
 CC ____ AC

GAM216 B3GALT3 3' GAAGATTACAGTTATGTA 1056 CG_
 TACGTAAC AATCTTC
 ||||| |||||
 ATGTATTG TTAGAAG
 ACA

GAM216 LOC159199 5' GAAGATCAAGAGGTTACGTG 3237 GA__
 TACGTAACC ATCTTC
 ||||| |||||
 GTGCATTGG TAGAAG
 AGAAC

GAM217 ACCN2 3' CCACCCAGACACTCCTTC 1891 TCT
 GAAGGGAGTGTGTT TGG
 ||||||| |||||
 CTTCCCTCACAGA ACC
 CC_

GAM217 BLAME 3' CCAAAAAAACACAAAGTGCTTC 1892 GA____ C
 TG TAGAAG GTGTTTT TTGG
 ||||| ||||| |||||

		GTCTTC	CACAAAAA	AACC		
		GTGAAA	A			
GAM217	DLX4	3'	TTGCCACTCCCCCACTCCTTCT	2432	TTTTCT	
			AGAAGGAGTG	TGGCAA		
			TCTTCCTCAC	ACCGTT		
			CCCCTC			
GAM217	DLX4	3'	TTGCCACTCCCCCACTCCTTCT	870	TTTTCT	
			AGAAGGAGTG	TGGCAA		
			TCTTCCTCAC	ACCGTT		
			CCCCTC			
GAM217	IGSF6	3'	TTTGCCAAGAAAAAAAAATTCTA	1256	GGAGTG	
			TAGAA	TTTTCTTGGCAA		
			ATCTT	AAAAGAACCGTT		
			AAAA_			
GAM217	ITPR2	3'	CAGGAACAAAACACTGCCT	912	_	_
			AGG AGTGT	TT TCTTG		
			TCC TCACAAA	AGGAC		
			G	ACA		
GAM217	IVD	5'	GCTAAAAACACTCATCCTA	913	AAG	CT
			TAG	GAGTGT	TTT TG	
			ATC	CTCACAAAA	ATCG	
			CTA	_		
GAM217	MAP4K2	3'	TGCCAAGAGGCCTGCCCT	1127	A	TT
			AGG GTG	TTCTTGGCA		
			TCC CGT	GAGAACCGT		
			C	CC		
GAM217	POLG	3'	TGCCAAGAAGATTCCCTCTA	948	GT	
			TAGAAGGA	GT	TTT CTTGGCA	
			ATCTCCT	TAGAAGAACCGT		
GAM217	RET	3'	TTGCCAAAACCTCCTTCT	1920	GT	
			AGAAGGAGT	TTGGCAA		
			TCTTCCTCA	ACCGTT		
			A_			
GAM217	SALL2	3'	TTGCCAAGAGGTCTCC	2672	TGT	
			GGAG	TTCTTGGCAA		
			CCTC	GGAGAACCGTT		
			T_			
GAM217	SLC9A1	3'	CCAAGGTCTCACACTCCTCCTG	2886	A	TT_
			TAG AGGAGTGT	TCTTGG		

GTC TCCTCACA GGAACC
 C CTCT
 GAM217 ZNF132 5' CCAAGAAAGCTAACTCCT 1020 —
 AGGAGT GTTTTCTTGG
 ||||| |||||||
 TCCTCA CGAAAGAACCC
 AT

GAM217 AD-020 3' TTTGCCAAGAAAATCTGGGCCT 1893 AGT__
 AGG GTTTTCTTGGCAAA
 ||| |||||||||
 TCC TAAAAGAACCGTTT
 GGGTC

GAM217 AD-020 3' TTTGCCAAGAAAATCTGGGCCT 2524 AGT__
 AGG GTTTTCTTGGCAAA
 ||| |||||||||
 TCC TAAAAGAACCGTTT
 GGGTC

GAM217 APOL3 3' CCAAGAAAAACAGTCTCA 1494 A G _
 A GGA TGTTTT CTTGG
 | ||| ||||| |||||
 A TCT ACAAAA GAACC
 C G A

GAM217 DJ473B4 3' TTTGCCAAAAAAAGTCCCCTA 1881 AA GTG C
 TAG GGA TTTT TTGGCAAA
 ||| ||| ||||| |||||
 ATC CCT GAAA AACCGTTT
 C_ __ A

GAM217 KIAA0475 3' TTTGCCAAAAGCAGTCCTTC 1571 G CT
 GAAGGA TGTTTT TGGCAAA
 ||||| ||||| |||||
 CTTCCCT ACGAAA ACCGTTT
 G _

GAM217 KIAA1729 3' CCAGGAACACTCCTTC 3458 TT
 GAAGGAGTGT TCTTGG
 ||||||| |||||
 CTTCCCTCAC A GGACC

GAM217 PHYHIP 3' CCACCGGGACACTCCCCCTG 1541 AA CT
 TAG GGAGTGTTTT TGG
 ||| ||||| |||||
 GTC CCTCACAGGG ACC
 CC CC

GAM217 SCAMP-4 3' TGCCAAGAGGGCACCCCCCTTC 2372 A_ T
 GAAGG GTGTTT CTTGGCA
 ||||| ||||| |||||
 CTTCC CACGGA GAACCGT
 CC _

GAM217 ST6GalNAcI 3' TGCTGAAAAACACTCTTC 1824 G C TG
 GAAG AGTGTGTTT T GCA
 ||||| ||||| | |||

CTTC TCACAAAAA A CGT
— _ GT
GAM217 TTY2 5' TGCCAAAAAAACAGGTACTCTT 3396 G ____ C
CTA TAGAAG AGT GTTTT TTGGCA
||||| ||||| |||||
ATCTTC TCA CAAAA AACCGT
_ TGGA A
GAM217 LOC126917 3' TTGCCAAGAAAGACCCC 3001 A G
GG GT TTTTCTTGGCAA
|| || |||||
CC CA GAAAGAACCGTT
C _
GAM217 LOC128077 3' TTGCTTCTGAAACCCCTCCT 3007 T_ CTT
AGGAG GTTT GGCAA
||||| |||||
TCCTC CAAAG TCGTT
CC TCT
GAM217 LOC152485 3' TCACCCAAACACTCCTTC 3171 TCT
GAAGGAGTGTGTT TGG
||||||| |||
CTTCCTCACAAA ACT
CCC
GAM217 LOC159148 5' TGCCAAAAAAACAGGTACTCTT 3397 G ____ C
CTA TAGAAG AGT GTTTT TTGGCA
||||| ||||| |||||
ATCTTC TCA CAAAA AACCGT
_ TGGA A
GAM217 LOC159989 3' GCCAAGAAAAAAAGCTCT 3238 G__
GGAGT TTTTCTTGGC
||| |||||
TCTCG AAAAGAACCG
AAA
GAM217 LOC164584 5' TTGCCAAGAAAACAATCT 3250 G
GGA TGTTTCTTGGCAA
||| |||||
TCT ACAAAAGAACCGTT
A
GAM218 RAG1 3' CCAGTATTAAATTATCC 745 ACTACT
GGATAATTAA ATATTGG
||||| |||||
CCTATTAAAT TATGACC

GAM218 LOC221964 3' GCCAGTAATAGTCAAATTAAACC 3628 A A CTA
GG TAATTT ACTA TATTGGC
|| ||||| |||||
CC ATTAAA TGAT ATGACCG
A C A__
GAM219 ADAM12 3' TGACTATGGATAAACTAAA 1030 AT
TTTAGTTATTCTATA GTTA
||||||| ||||

AAATCAAATAGGTAT CAGT

GAM219 KIAA1789 5' TAACATTATGTGATTCTAAATG 2780 TTTATT
TATTTAG CATAATGTTA
|||||| |||||||
GTAAAATC GTATTACAAT
TTAGT_

GAM220 NR4A2 3' AACAAACAAAAACTGTTGCTAT 1276 TC_ CTA
TTC GAAATAGC GTTT TTTGTT
|||||| |||| |||||
CTTTATCG CAAA AAACAA
TTGT AAC

GAM220 LOC51145 3' GCAAAAACGAGCTCTTCA 1667 AT CTAT
TGAA AGCTCGTT TTGT
||| ||||||| |||||
ACTT TCGAGCAAA AACG
C_ _

GAM221 HFE 3' GCAGGTGCTTCAGGATA 738 AC _
TATCCTGA AGCAT TGC
|||||| ||||| |||||
ATAGGACT TCGTG ACG
_ G

GAM221 HFE 3' GCAGGTGCTTCAGGATA 2464 AC _
TATCCTGA AGCAT TGC
|||||| ||||| |||||
ATAGGACT TCGTG ACG
_ G

GAM221 PKIA 3' CAATGCTGTATGATACTATT 1334 A CTGA
AGATA TATC ACAGCATTG
||| |||| |||||||
TTTAT ATAG TGTCGTAAC
C TA_

GAM221 PLAG1 3' GCAATGCTATCCATTGATGT 943 C_ AAC
ATATC TG AGCATTGC
||| || |||||||
TGTAG AC TCGTAACG
TT CTA

GAM221 FLJ20371 3' GCCTATTCAAGGATATTAAC 1752 A CA_
AG TAATATCCTGAA GC
|| |||||||| |||
TC ATTATAGGACTT CG
A ATC

GAM221 LOC202052 3' GCATCTGTTCAAGACAACATC 3485 AATA CAT
GAT TCCTGAACAG TGC
||| ||||||||| |||
CTA AGGACTTGTC ACG
CAAC T_

GAM222 EIF2C1 3' TGCCCTCAAGCTTATACTA 1413 CGTC A A
TAGTATAG GTTT AG GCA
|||||| ||||| |||||

ATCATATT CGAA TC CGT
 _____ C C
 GAM222 FMR2 3' CTCTTAAAAAGATGCTATGC 888 G_
 GTATAGCGTC TTTAAGAG
 ||||| |||||
 CGTATCGTAG AAATTCTC
 AA

GAM222 FLJ13612 3' CTCTTAAATACTGTACTA 2146 CGTC
 TAGTATAG GTTTAAGAG
 ||||| |||||
 ATCATGTC TAAATTCTC
 A_

GAM223 HPS4 5' TGTTTGAACCTGGAAACTTCAA 1977 AA T
 TTGAAGTTCCA TTT GATA
 ||||| |||||
 AACTTCAAAGGT AAG TTGT
 C_ T

GAM223 TEKT1 5' GGAATTTGGAAACCTCAA 2359 A
 TTGA GTTTCCAAATTT
 ||||| |||||
 AACT CAAAGGTTAAGG
 C

GAM223 LOC145783 3' CGGAATTTGGAAACCCCAG 3082 AA
 TTG GTTTCCAAATTTG
 ||||| |||||
 GAC CAAAGGTTAAGGC
 CC

GAM223 LOC154321 3' TATTTAGCTTGGAAACTT 3190 T T
 AAGTTTCCAAA TT GATA
 ||||| |||||
 TTCAAAGGTT GA TTAT
 C T

GAM224 FEZ1 3' AGGATATGTCCACATAAGAA 1993 _ ATTTT
 TTCTT TGT GGCATATCCT
 ||||| |||||
 AAGAA ACA CTGTATAGGA
 T C_

GAM224 GOLGA4 5' AGGATATTGAAACACAAAGAA 2554 A TGGC
 TTCTTGTT TTT ATATCCT
 ||||| |||||
 AAGAAACA AAG TATAGGA
 C T_

GAM224 HAS3 3' AGGACAAATCTAAAATGCAAAG 1199 CATA_
 AA TTCTTTGTATTTGG TCCT
 ||||| |||||
 AAGAAACGTAAAATC AGGA
 TAAAC

GAM224 JUN 3' AGGATATTAAAGAAAATACAA 914 GGC_
 TTGTATTTT ATATCCT
 ||||| |||||

		AACATAAAA	TATAGGA		
		GAATT			
GAM224	MADH9	3' ATGTGTAATACATAGAA	1260	T	TG
		TTCT TGTATTT	GCATAT		
		AAGA ACATAAA	TGTGTA		
		T	—		
GAM224	NR2C2	3' AGGACCGTTCACATACAAAGAA	1007	TTT	ATA
		TTCTTGAT	GGC TCCT		
		AAGAACATA	TTG AGGA		
		CAC CC_			
GAM224	AP1S3	3' AGGACTATAGAAATGCAAAGAA	3010	GGCATA	
		TTCTTGATTTT	TCCT		
		AAGAACGTAAG	AGGA		
		ATATC_			
GAM224	ARHE	3' ATATGCCAAAAATGAGAG	1190	TGTA	
		TTCTT	TTTGGCATAT		
		GAGAG	AAAACCGTATA		
		TAA_			
GAM224	FLJ11000	3' AGGACACATGGGGTACAAAGA	1812	TT GCATA	
		TCTTGATT	G TCCT		
		AGAACATGG	T AGGA		
		GG ACAC_			
GAM224	FLJ11996	5' ATAGATCTAAATACAAAGGA	2120	T CA	
		TTCTTGATTT	GG TAT		
		AGAACATAAA	CT ATA		
		T AG			
GAM224	GADD45A	3' AGGAACAAAAATTACAAAGAA	869	T GGCATA	
		TTCTTGTA TTT	TCCT		
		AAGAACAT AAA	AGGA		
		T AACAA_			
GAM224	HNRPA3	3' AGGATATGATGGTTACAATGAA	1244	T TTTGG	
		TTC TTGTA	CATATCCT		
		AAG AACAT	GTATAGGA		
		T TGTTA_			
GAM224	KIAA0179	3' AGAATATGTCACATAAAGAA	2704	ATTT	C
		TTCTTGTT	TGGCATAT CT		
		AAGAAATA	ACTGTATA GA		
		C__ A			
GAM224	KIAA1831	3' GGAAAAAAATACAAAGAA	2667	GGCATA	
		TTCTTGATTTT	TCC		

AAGAAACATAAAA AGG
AA_____
GAM224 KLHL4 3' AGGATATGTGTGCTATATAAA 1880 TTTG_
TTTGTAT GCATATCCT
|||||| |||||||
AAATATA TGTATAGGA
TCGTG

GAM224 PANX3 3' AGGATAGTATAAATAAAAAGAA 2350 G TG A
TTCTTT TATTT GC TATCCT
|||||| ||||| |||||||
AAGAAA ATAAA TG ATAGGA
A TA _

GAM224 TRAF3 5' ATATGCTAACACAAAAGAA 2541 GTAT
TTCTTT TTTGGCATAT
|||||| |||||||
AAGAAA AAATCGTATA
AC_____
GAM224 TRAF3 3' ATATGCTAACACAAAAGAA 1008 GTAT
TTCTTT TTTGGCATAT
|||||| |||||||
AAGAAA AAATCGTATA
AC_____
GAM224 ZFD25 3' GATTGTACAAATACAAGGAA 1672 TG T
TTCTTTGTATTT GCA ATC
||||||| |||||
AAGGAACATAAA TGT TAG
CA ____

GAM224 ZID 3' ATATGCCAAAAGGAA 1315 TTGTA
TTCT TTTTGGCATAT
||| |||||||
AAGG AAAACCGTATA

GAM224 LOC151742 5' AGGACTACGAGAAAGACAAAGA 2477 A GGCATA
A TTCTTGTTTT TCCT
||||||| |||||
AAGAAACA AAAG AGGA
G AGCATC

GAM224 LOC152179 3' TGCTTCAAAATCAAAGAA 3352 T ____
TTCTTG ATTTTG GCA
||||||| |||||
AAGAAAC TAAAAC CGT
_ TT

GAM224 LOC51266 3' GATATGTATGAATGCAAA 1691 TG
TTTGTATTT GCATATC
||||||| |||||||
AAACGTAAG TGTATAG
TA

GAM224 LOC90317 5' AGGATACATACTACAGAGAA 2629 TTT GCA
TTCTTGTA TG TATCCT
||||||| || |||||

	AAGAGACAT	AC	ATAGGA			
	CAT	_____				
GAM224	LOC90470	3'	AGAATATGCTCAATACAAAG	2645	TT	C
	CTTTGTATT	GGCATAT	CT			
	GAAACATAA	TCGTATA	GA			
	C	_____	A			
GAM224	LOC90786	5'	ATATGCCAAAATTGAGA	2678	TGT	
	TCTT	ATTTTGGCATAT				
	AGAG	TAAAACCGTATA				
	T	_____				
GAM225	ATRX	3'	ATCACGTCAGTAAAATACTA	751	T A	C
	TAGTATTTT	CT ACGT GGT				
	ATCATAAAA	GA TGCA CTA				
	T	C	_____			
GAM225	ATRX	3'	ATCACGTCAGTAAAATACTA	2431	T A	C
	TAGTATTTT	CT ACGT GGT				
	ATCATAAAA	GA TGCA CTA				
	T	C	_____			
GAM225	D10S170	3'	ATACCATTAGAAAATACTA	1211	T	CGTC
	TAGTATTTT	CTAA GGTAT				
	ATCATAAAA	GATT CCATA				
	_____	A	_____			
GAM225	RAB27A	3'	ACTGTAATTAGAAAAATAC	1128	CGT	
	GTATTTTCTAA	CGGT				
	CATAAAAAGATT	GTCA				
	AAT					
GAM225	CYLD	3'	AATAGTGGTCAGAAAAATAC	1616	A	GT G
	AGTATTTTCTAC	CG TATT				
	TCATAAAAAGA	TG GT ATAA				
	C	_____	G			
GAM225	LOC145945	5'	ATTTATGGTGAGAAAAATAC	3279	AA	CG
	GTATTTTCT	CGT GT				
	CATAAAAAGA	GTA TA				
	GTG	TT				
GAM225	LOC200273	3'	ACCGACGTCAAAAAGTCTG	2895	T	CTA
	TAG ATTTT	ACGTCGGT				
	GTC TGAAAA	TGCAGCCA				
	_____	AC	_____			
GAM225	LOC220758	3'	GCGATTAGAAAAACACTA	3497	A	—
	TAGT	TTTTTCTAA CGT				

		ATCA AAAAAGATT GCG	
		C A	
GAM226	KNSL1	3' TTAGTGGTTATTCCTAAAT 1123	—
		ATTTAGAAATAAC ATTG	
		TAAAATCTTATTG TGATT	
		G	
GAM226	PLAC1	3' TGAAGATGCTATTCCTAGAATT 1960	A AG
		AATTTAGAAATA CATT CG	
		TTAAGATCTTAT GTAG GT	
		C AA	
GAM226	SCP2	3' CTAATGTTATTCCTAAATT 977	—
		AATTTA GAAATAACATTAG	
		TTAAAAT CTTTATTGTAATC	
		T	
GAM226	STIM1	3' GTGTTATTCATAAAATT 2558	—
		AATTTA GAAATAACAT	
		TTAAAAT CTTTATTGTG	
		A	
GAM226	CORTBP2	3' AATGTTACTTCTAAATT 2334	A
		AATTTAGAA TAACATT	
		TTAAAATCT ATTGTAA	
		C	
GAM226	VAMP3	3' CTACTGTTATCTCTAAATT 1156	A T
		AATTTAGA ATAACA TAG	
		TTAAAATCT TATTGT ATC	
		C C	
GAM226	LOC90148	3' TCCTTGTGTTATTCCTAAAA 2603	T C
		TTTTAGAAATAACAT AG GA	
		AAAATCTTATTGTG TC CT	
		T —	
GAM227	AK2	3' TGAAAAAGGAAGTTGGTTATGC 1449	TACA — C
		CA TGCG AACT TTCCCTTT CA	
		ACCG TTGG GAAGGAAAA GT	
		TA__ TT A	
GAM227	CRTAP	3' GGAAAAGGAAGAAAGCCA 1291	ACAAAC
		TGGCT TTTCCCTTTCC	
		ACCGA AGAAGGAAAAGG	
		A_____	
GAM227	CXorf6	5' TGGAAAAGTCGGCTTGTAAATCA 1218	GC A TTTC
		TG TACAA CT CTTTCCA	

AC ATGTT GG GAAAAGGT
TA C CT_

GAM227 EPHB2 3' TGGAAAAGAAAAACTGGTGCCA 1113 T AAAC C
TGGC AC TTTTC TTTTCCA
|||||| ||||| |||||
ACCG TG AAAAG AAAAGGT
- GTCA -

GAM227 FZD3 3' TGGAAAAATTAAATTGTAGC 1717 CTTTCC
CA TGGCTACAAA TTTTCCA
||||||| |||||
ACCGATGTT AAAAGGT
AATTTA

GAM227 HMGA2 3' GAAAAAAAAAGCTTGTGGCCA 1033 A CC
TGGCTACAA CTTTT TTTTC
||||||| |||||
ACCGGTGTT GAAAA AAAAG
C A_

GAM227 SLC2A4 3' TGGAAAAGAACATCCCTGCAGCC 794 A AACTT C
GGCT CA TTC TTTTCCA
||||||| |||||
CCGA GT AAG AAAAGGT
C CCCT_ -

GAM227 ATP10B 3' AGGGAAAAGTTATAACCA 2654 C CA
TGG TA AACTTTCCCTT
||| || |||||
ACC AT TTGAAAAGGGA
A A_

GAM227 BCCIP 3' GAAAAGGAATAGTCA 2369 CAAACTT
TGGCTA TTCCCTTTTC
||||| |||||
ACTGAT AAGGAAAAG

GAM227 C20orf30 3' GGAAAAGTGTGCCTGCCA 1478 TA_ _
TGGC CAA ACTTTCC
||| || |||||
ACCG GTT TGAAAAGG
TCC G

GAM227 DKFZP564O043 3' GGAAGGGAAAAATTATAGCTA 3565 C C
TGGCTA AAA TTTCCCTTTTC
||||| |||||
ATCGAT TTT AAAAGGGAAGG
A A

GAM227 FLJ11710 3' TGGAAAGGGGAATCTATGCCA 2097 TACAAACT
TGGC TTCCCTTTCCA
||| |||||
ACCG AAGGGGAAAGGT
TATCT_

GAM227 JDD1 3' TGGAAAGGCAAGTTGTACCCA 2653 C TTC
TGG TACAAACTT CTTTCCA
||| ||||| |||||

ACC ATGTTGAA GGAAAGGT
C C_

GAM227 KIAA0265 3' GAAAAGGAAAAGGAATAATCA 2871 GC CAAA
TG TA CTTTCCTTTC
|| || |||||||||
AC AT GAAAAGGAAAAG
TA AAG_

GAM227 KIAA0663 3' GGAAAAGGAAGAAAGCCA 1561 ACAAAC
TGGCT TTTCCCTTTC
|||| |||||||||
ACCGA AGAAGGAAAAGG
A_____

GAM227 KIAA1010 3' TGGAAAGGAGAAACTTGCAGTC 2934 A AC T
A TGGCT CAA TTTCCCTT CCA
|||| |||| ||||| |||
ACTGA GTT AAGAGGAAA GGT
C CA _

GAM227 KIAA1576 3' GGTCAAAAGTTGAGCCA 2734 A _____
TGGCT CAAACTTT CC
|||| |||| |||
ACCGA GTTTGAAAA GG
_ CT

GAM227 KIAA1634 3' TGAAAAAGGAAAGAAAGTAACC 2658 C AAAC C
A TGG TAC TTTCCCTTT CA
||| ||| ||||||||| |||
ACC ATG GAAAGGAAAA GT
A AAA_ A

GAM227 KIAA1798 3' GAAAGTAAGTTGTAGC 2575 TTC
GCTACAAACTT CTTT
||||||| |||||
CGATGTTGAA GAAAG
T_

GAM227 KNSL7 3' AAAAATAAAAGCCTGTAGCTA 1904 AA CC
TGGCTACA CTTTT TTTT
||||||| |||||
ATCGATGT GAAAA AAAA
CC TA

GAM227 LALP1 3' GAAATGAAATTGTAGC 1916 CT CT
GCTACAAA TTTC TTTC
||||||| |||||
CGATGTTT AAAG AAAG
_ T_

GAM227 MGC2488 3' GAAAAGGAAAGCATGTAGC 2044 AACT
GCTACA TTTCCCTTTC
||||| |||||||||
CGATGT GAAGGAAAAG
AC_

GAM227 nexilin 3' AAAAGGAAACCAGGAGTGCCA 2484 T AAA _
TGGC AC CT TTTCCCTTT
|||| || |||||||||

ACCG TG GA AAAGGAAAA
_ AG_ CC
GAM227 NKX2B 3' TGGAAAAGAAAACCCTGTAGGC 934 G AAC C
A TG CTACA TTTTC TTTCCA
|| |||| |||| |||||
AC GATGT AAAAG AAAAGGT
G CCC _
GAM227 STX18 3' TGAAAAAGGAAACAGTGCACAC 1715 CTACAA _ C
CA TGG ACT TTTCCCTTT CA
||| |||| ||||| ||
ACC TGA AAAGGAAAA GT
ACACG_ C A
GAM227 ZNF271 5' AGTAAAAGTTTAGCCA 3670 C C
TGGCTA AAACCTTT CT
|||| ||||| ||
ACCGAT TTTGAAAA GA
_ T
GAM227 LOC115207 3' GAAAGTTGGAAGTTGTACCA 2440 C CC
TGG TACAAACTTTT TTTTC
||| ||||| |||||
ACC ATGTTGAAAGG GAAAG
TT
GAM227 LOC133482 5' AAAAGGAAAAAGCCA 3014 ACAAAC
TGGCT TTTCCCTTT
|||| |||||
ACCGA AAAAGGAAAA
A _____
GAM227 LOC147080 5' TGGAAATCGCCAAATTGTAGC 3290 CTTTCCT
CA TGGCTACAAA TTTCCA
||||||| |||||
ACCGATGTTT AAAGGT
AAACCGCT
GAM227 LOC147990 3' GAAAAGGAAATAAAAAGCCA 3295 ACAAACT
TGGCT TTTCCTTT
|||| |||||
ACCGA AAAGGAAAAG
AAAAAT_
GAM227 LOC149529 3' AAAAGGCAAAAGTTGCAGC 3134 A _
GCT CAAACTTT CCTTT
||| |||||
CGA GTTGAAAA GGAAAA
C C
GAM227 LOC158130 3' AAAGGAAAATTCTAGCCA 2847 C AC
TGGCTA AA TTTTCCTTT
|||| || |||||
ACCGAT TT AAAAGGAAA
C _
GAM227 LOC196478 5' GAAAATGGATTGTAGC 3413 CTTT _
GCTACAAA TCC TTTTC
|||| || |||||

CGATTTT AGG AAAAG
_____ T
GAM227 LOC219894 3' AGAAGAAAAGTTGAAACCA 3595 CTA C
TGG CAAACTTTTC TTTT
||| |||||||| ||||
ACC GTTTGAAAAG AAGA
AAA _
GAM227 LOC219988 5' GAAAGCACAAAATTGTAGC 3535 C TC_
GCTACAAA TTT CTTTT
||||||| |||||
CGATTTT AAA GAAAG
A CAC
GAM227 LOC221272 3' GAAAAGGAAAAGTTACCTGC 3613 TAC_
GC AAACTTTCCCTTTTC
||| |||||||||
CG TTTGAAAAGGAAAAG
TCCA
GAM227 LOC221272 3' GAAAAGGAAAAGTAGCTA 3614 AAACT
TGGCTAC TTTCCCTTTTC
||||| |||||||||
ATCGATG AAAGGAAAAG

GAM227 LOC245771 5' TGAAAAAGGAGAGATCATCAGC 3584 ACAAAC C
CA TGGCT TTTCCCTTT CA
||||| |||||||||
ACCGA GAGAGGAAAA GT
CTACTA A
GAM227 LOC253019 3' GGAAAAGGAAGAAAGCCA 3673 ACAAAC
TGGCT TTTCCCTTTCC
||||| |||||||||
ACCGA AGAAGGAAAAGG
A _____
GAM227 LOC253975 3' GGAAAAGGAAGAAAGCCA 3687 ACAAAC
TGGCT TTTCCCTTTCC
||||| |||||||||
ACCGA AGAAGGAAAAGG
A _____
GAM227 LOC254873 3' TGGAAAAGAATCCCTGCAGCC 3659 A AACTT C
GGCT CA TTC TTTCCA
||||| ||| |||||
CCGA GT AAG AAAAGGT
C CCCT_ _
GAM227 LOC51634 3' AAAATGAAACCTGTAGCCA 1655 AACT C
TGGCTACA TTTC TTTT
||||| |||||
ACCGATGT AAAG AAAA
CCC_ T
GAM228 ABCE1 3' AAATATACAGAATGGAA 2532 GCTG
TTCCG TTGTATATT
||||| |||||||||

AAGGT GACATATAAA
 AA
 GAM228 WWP1 3' ATTTAAATACCCCAAGCCAAGAA 1345 C TTGTA
 A TTTC GGCTG TATTAAAT
 ||||| |||||
 AAAG CCGAC ATAAATTAA
 AA CCC
 GAM229 GDF8 3' ATGAAGAATAAAACTGATGCTA 1197 C GAG C
 TAGCATCG TTT ATTCT CAT
 ||||| |||||
 ATCGTAGT AAA TAAGA GTA
 C A
 GAM229 DIO2 3' TGGAGAGGAAGAAACGCTA 773 ATCG GAGA
 TAGC CTTT TTCTCCA
 ||||| |||||
 ATCG GAAG GAGAGGT
 CAAA
 GAM229 DIO2 3' TGGAGAGGAAGAAACGCTA 1454 ATCG GAGA
 TAGC CTTT TTCTCCA
 ||||| |||||
 ATCG GAAG GAGAGGT
 CAAA
 GAM229 FLJ21007 5' ATGAAGAATCTCAGGCTGC 2167 TC T C
 GCA GCTT GAGATTCT CAT
 ||||| |||||
 CGT CGGA CTCTAAGA GTA
 — A
 GAM229 KIAA0478 3' ATGGAGAAAAAGCAGGGATGCT 1573 GAGA
 A TAGCATC GCTTT TTCTCCAT
 ||||| |||||
 ATCGTAG CGAAA AAGAGGTA
 GGA
 GAM229 KIAA0513 3' GATCTAAAACAGTGCTA 1535 CGC
 TAGCAT TTTGAGATT
 |||||
 ATCGTG AAACTCTAG
 ACA
 GAM229 KIAA1323 5' ATGGAGAATGGGCTGAAGCGAT 2647 G
 GCT AGCATCGCTT AG ATTCTCCAT
 ||||| |||||
 TCGTAGCGAAG TC TAAGAGGTA
 _ GGG
 GAM229 P450RAI-2 3' GAGAATCTGGGGATGCTG 1888 G TT
 TAGCATC CT GAGATTCTC
 ||||| |||||
 GTCGTAG GG TTCTAAGAG
 G
 GAM229 XYL1 3' GAAACTCACAAAGCAATGCT 3089 C A
 AGCAT GCTT TGAG TTC
 ||||| |||||

TCGTA CGAA ACTC AAG
 A AC A
 GAM229 LOC143282 3' ATGGAGAACATCTCTGGGATAGC 3055 _ G TT
 GC ATC CT GAGATTCTCCAT
 ||||| |||||||||
 CG TAG GG CTCTAAGAGGTA
 A _ T_

GAM229 LOC200132 3' ATGGAGAAAATTAGCAATGCTG 3438 C TT GA
 TAGCAT GCT GA TTCTCCAT
 ||||| ||||| |||||||
 GTCGT A CGA TT AAGAGGTA
 A __ AA

GAM230 FGFR1 5' CCGCAGCGCGCGGGAGGAA 759 GAGA ACA A
 TTCCTCTG TG CT CGG
 ||||| || |||||
 AAGGAGGC GC GA GCC
 ___ GC_ C

GAM230 FGFR1 5' CCGCAGCGCGCGGGAGGAA 1647 GAGA ACA A
 TTCCTCTG TG CT CGG
 ||||| || |||||
 AAGGAGGC GC GA GCC
 ___ GC_ C

GAM230 FGFR1 5' CCGCAGCGCGCGGGAGGAA 2031 GAGA ACA A
 TTCCTCTG TG CT CGG
 ||||| || |||||
 AAGGAGGC GC GA GCC
 ___ GC_ C

GAM230 FGFR1 5' CCGCAGCGCGCGGGAGGAA 2033 GAGA ACA A
 TTCCTCTG TG CT CGG
 ||||| || |||||
 AAGGAGGC GC GA GCC
 ___ GC_ C

GAM230 FGFR1 5' CCGCAGCGCGCGGGAGGAA 2035 GAGA ACA A
 TTCCTCTG TG CT CGG
 ||||| || |||||
 AAGGAGGC GC GA GCC
 ___ GC_ C

GAM230 FGFR1 5' CCGCAGCGCGCGGGAGGAA 2036 GAGA ACA A
 TTCCTCTG TG CT CGG
 ||||| || |||||
 AAGGAGGC GC GA GCC
 ___ GC_ C

GAM230 ITGB3 3' CCTCTCATTCCAGAGGAA 718 A CACTAC
 TTCCTCTGGAG TGA GG
 ||||||| ||||| ||
 AAGGAGACCTT ACT CC
 _ CT_

GAM230 PCSK2 3' GCCATGCAATTATCCCAGAGG 940 A CACTAC_
 AA TTCCTCTGG GATGA GGC
 ||||| ||||| |||||

AAGGGAGACC CTACT CCG
 _ TAACGTA
 GAM230 STK24 3' CCATAGTGCACATATTCCAGG 1038 _ A_ C
 TCTGGAG ATG CACTA GG
 ||||| ||| |||||
 GGACCTT TAC GTGAT CC
 A AC A

GAM230 TIMP3 5' CCTGCTCTCTCCAGAG 733 T _ CTAC
 CTCTGGAGA GA CA GG
 ||||| ||| |||
 GAGACCTCT CT GT CC
 _ C __

GAM230 AF038169 3' GCCAGGGGGCATCTCCAAAGGA 1440 C ACA AC
 A TTCCT TGGAGATG CT GGC
 ||||| ||||| |||
 AAGGA ACCTCTAC GG CCG
 A GG_ GA

GAM230 CRTAM 3' GCCGCAGTGTCACTCAGTGG 1883 T G A A
 TCC CTG AG TGACACT CGGC
 ||| ||| ||| |||||
 AGG GAC TC ACTGTGA GCCG
 T _ C C

GAM230 DKFZP564J0863 3' GCCACAGGTTCATATCCAGAGG 2815 G CA AC
 AA TTCCTCTGGA ATGA CT GGC
 ||||| ||| |||
 AAGGAGACCT TACT GA CCG
 A TG CA

GAM230 FLJ14297 5' GCCATAGAATTCTCTCCAGAAC 2108 C T CA_ C
 AG TTC TCTGGAGA GA CTA GGC
 ||| ||||| ||| |||
 GAG AGACCTCT CT GAT CCG
 A _ TAA A

GAM230 FLJ20508 3' GCTGTTACCATCTCAGAGGAA 1757 G ACAC
 TTCTCTG AGATG ACGGC
 ||||| ||||| |||||
 AAGGAGAC TCTAC TGTG
 _ CAT_

GAM230 FLJ23462 3' GCTTCTGTCATCTCCAGAG 2096 CTAC
 CTCTGGAGATGACA GGC
 ||||| ||||| |||
 GAGACCTCTACTGT TCG
 CT_

GAM230 LOC126167 3' CCAAGAATTATCTCCAAAGGA 2998 C CACTAC
 A TTCCT TGGAGATGA GG
 ||||| ||||| |||
 AAGGA ACCTCTATT CC
 A TAAGAA

GAM230 LOC157247 5' CCACAGTGTCACTCCCACAG 3200 C A AC
 CT TGG GATGACACT GG
 ||| ||||| |||

GA ACC CTACTGTGA CC
 C _ CA
 GAM230 LOC161357 5' CCGTAGTGGCTCCAAAG 3240 C ATGA
 CT TGGAG CACTACGG
 ||||| |||||
 GA ACCTC GTGATGCC
 A G_

GAM230 LOC201965 3' CCGTAAATTACTTCAGAG 3455 A CAC
 CTCTGGAG TGA TACGG
 ||||| ||| |||||
 GAGACTTC ATT ATGCC
 _ AA_

GAM230 LOC253758 5' GCCGTCTCACCTCCAAAGG 3723 C A CACT
 CCT TGGAG TGA ACGGC
 ||||| ||| |||||
 GGA ACCTC ACT TGCCG
 A C C_

GAM230 LOC91661 3' CCACTGCATCTCAGAGGAA 2438 G A CTAC
 TTCCTCTG AGATG CA GG
 ||||| ||||| |||||
 AAGGAGAC TCTAC GT CC
 _ _ CA_

GAM231 SPG4 3' AATCTACAGACATTAAACAAT 1595 C TA
 ATTGTTTAAT GTTT TAGATT
 ||||| ||||| |||||
 TAACAAATTAA CAGA ATCTAA
 _ C_

GAM231 KIAA0672 3' AATCTATAAAACAAAACAA 1569 AATC
 TTGTTT GTTTATAGATT
 ||||| |||||||||
 AACAAA CAAAATATCTAA
 A_

GAM231 MGC32104 3' AATCTATAAAAGAACTCAAACAA 2495 AATCG
 TTGTTT TTTTATAGATT
 ||||| |||||||||
 AACAAA GAAATATCTAA
 CTCAA

GAM231 PRO0082 3' AATCTATGGCTTGATTAATAAT 1851 G TT
 A TATT TTTAATCG TTATAGATT
 ||||| |||||
 ATAA AAATTAGT GGTATCTAA
 _ TC

GAM232 TRAP1 3' GATGACAGCCCCACCTCC 1678 A A_
 GGAGGTGG GT TCGTC
 ||||| |||||
 CCTCCACC CG AGTAG
 C AC

GAM232 ASAH 3' TGGTGAACCTCCACCTCC 1098 A GT
 GGAGGTGGAGT TC CA
 ||||| |||||

CCTCCACCTCA AG GT
 _ TG
 GAM232 CNNM1 3' ATTATTGACTTCACCACACCCC 1913 A GA ATC
 GG GGTG GT GTCAATAAT
 || |||| || |||||||
 CC CCAC CA CAGTTATTA
 _ AC CTT

GAM232 Rab11-FIP2 3' ATTATGCATTACTCCACATCC 1582 G TC CA
 GGA GTGGAGTA GT ATAAT
 |||||||| || |||||
 CCT CACCTCAT CG TATTA
 A TA _

GAM232 RNF38 3' ATTGAATACTCCATCCC 2009 A CG
 GG GGTGGAGTAT TCAAT
 ||||||||| |||||
 CC CTACCTCATA AGTTA

GAM232 LOC152283 3' TGGTCGACATCCCACCTCC 3357 AG A _
 GGAGGTGG T TCG TCA
 ||||| | |||||
 CCTCCACC A AGC GGT
 CTC T

GAM232 LOC160484 5' TATTGGCCTGACAGTCCACCTC 3239 __ ATC
 C GGAGGTGGA GT GTCAATA
 ||||||| || |||||
 CCTCCACCT CA CGGTTAT
 GA GTC

GAM232 LOC90119 3' ATTATTGACAACACCAT 2600 A ATC
 GTGG GT GTCAATAAT
 ||||| || |||||
 TACC CA CAGTTATTA
 A A_

GAM233 MTMR2 3' GATCAAATCATTGATA 1664 T
 TATCAGATGATTTG ATT
 ||||||||| |||||
 ATAGTTACTAAAAC TAG

GAM233 PCDHGA8 5' GATCTAACCTGATCATTAAATA 2227 C TTGT
 TAT AGATGATT ATTAGATC
 ||||| |||||
 ATA TTTACTAG TAATCTAG
 A TC_

GAM233 PCDHGA8 5' GATCTAACCTGATCATTAAATA 1460 C TTGT
 TAT AGATGATT ATTAGATC
 ||||| |||||
 ATA TTTACTAG TAATCTAG
 A TC_

GAM233 PTGES 3' CTAATGATCATCTGA 1162 TTGT
 TCAGATGATT ATTAG
 ||||||| |||||

AGTCTACTAG TAATC

GAM233 SOX11 3' AATCATAATCATCTGATA 991 T T
 |
 TATCAGATGATT TG ATT
 ||||||| |||||
 ATAGTCTACTAA AC TAA
 T _

GAM234 C6 5' TGGGAGGACAAAGGCAGT 3656 A A_
 ACT CCTTGTC CCCA
 ||| ||||| |||||
 TGA GGAAACAG GGGT
 C GA

GAM234 CGB 5' ATAAAGCCAGGTACACGAGGCA 770 A _ C CAA
 G CT CCTT TGT ACC CTTTAT
 || |||| |||| |||||
 GA GGAG ACA TGG GAAATA
 C C _ ACC

GAM234 CUL3 3' AGTTGGGTAACAAAAATGG 1040 CC C
 CTA TTTGT ACCCAACT
 ||| |||||
 GGT AAACA TGGGTTGA
 AA A

GAM234 GRINL1A 3' ATAAAGTTACACAAAGGTAGT 2863 CACCC
 ACTACCTTGTC AACTTAT
 ||||||| |||||
 TGATGGAAACA TTGAAATA
 CA_

GAM234 PRKG1 3' AGTTGAGAGACAAAGGTA 1283 ACC
 TACCTTGTC CAACT
 ||||||| |||||
 ATGGAAACAG GTTGA
 AGA

GAM234 WHSC1 3' AAAGTTGGGTTGATAGG 2409 TT _
 CCT GTCA CCCAACTTT
 ||| |||||
 GGA TAGT GGGTTGAAA
 — T

GAM234 CGB5 5' ATAAAGCCAGGTACACGAGGCA 2311 A _ C CAA
 G CT CCTT TGT ACC CTTTAT
 || |||| |||| |||||
 GA GGAG ACA TGG GAAATA
 C C _ ACC

GAM234 DDX33 3' ATAAAATTGGGTTCAAAAG 1895 C_ C
 CTTTGT ACCCAA TTTAT
 ||||| |||||
 GAAATA TGGGTT AAATA
 CT A

GAM234 FLJ20296 5' TAAAGCTGGTTAAGGTGGT 1749 TGTAC A
 ACTACCTT CCA CTTTA
 ||||| |||||

TGGTGGAA GGT GAAAT
 TT__ C
 GAM234 IRO039700 5' GTGGGGCAGACAAAGGCAG 1858 A A_ A
 CT CCTTGTC CCC AC
 ||||||| |||||
 GA GGAAACAG GGG TG
 C AC G

GAM234 KIAA0594 3' ATAAAATTAGGTGACAAGGGT 2706 C C
 ACCTTTGTCA CC AA TTTAT
 ||||||| |||||
 TGGGAACAGTGG TT AAATA
 A A

GAM234 MAL2 3' AGTTGAATGACAAAGCAGT 2343 AC CC
 ACT CTTGTCA CAACT
 ||||| |||||
 TGA GAAACAGT GTTGA
 C_ AA

GAM234 LOC145622 3' AAAGTTGTAAAGTGACGAA 3080 C_____
 TTTGTCAC CAACTTT
 ||||| |||||
 AAGCAGTG GTTGAAA
 AAATGT

GAM234 LOC152982 3' ATAAAGTTACACAAAGGTAGT 3176 CACCC
 ACTACCTTTGT AACTTTAT
 ||||||| |||||
 TGATGGAAACA TTGAAATA
 CA_____

GAM234 LOC256174 5' ATAAAGTTGGATGGAAAGG 3742 G C
 CCTT TCA CCAACTTTAT
 ||||| |||||
 GGAAA GGT GGTTGAAATA
 _ A

GAM235 CALCR 3' GAGGGGAAAAAAATTAAGTGCTC 854 A A _ G
 CA TG AGTA TTAATTTT CT CCTC
 ||||| ||||| |||||
 AC TCGT ATTAAAAA GG GGAG
 C C A _

GAM235 IL1F9 3' GAAGAAGCAATTACTTCA 1886 AA
 TGAAGTAATT TTTTTC
 ||||| |||||
 ACTTCATTAA AAGAAG
 CG

GAM235 LTA 3' AGGCAAAAAAATTAAATTATTT 757 _ C
 AAGTAATT AATTTTT TGCCT
 ||||| ||||| |||||
 TTTATTAA TTAAAAA ACGGA
 A A

GAM235 PPP1R12B 3' AGGCAGGGTCTAACCCCTCA 2229 TAA ATTT
 TGAAG TTA TTCTGCCT
 ||||| ||||| |||||

ACTTC AAT GGGACGGA
CC_ CT_
GAM235 TFF3 3' GCAGAAAAAAATACATTCA 2661 AAT A
TGAAGT TA TTTTCTGC
|||| |||||||||
ACTTTA AT AAAAAGACG
C_ A

GAM235 ZHX1 3' AGGAGAACATTCTCA 1366 T A
TGAAG AATT ATTTTCT
|||| |||||
ACTTC TTAA TAAGAGGA
_ C

GAM235 DKFZP434C1715 3' AGGCAGAACGGATCACTT 3371 AATTA
AAGT ATTTTCTGCCT
||| |||||||||
TTCA TAGGAAGACGGA
C_

GAM235 FLJ21075 3' GAGGCAGAAAATTCCACTT 2130 AATTAAT
AAGT TTTTCTGCCTC
||| |||||||||
TTCA AAAAGACGGAG
CCTT_

GAM235 FLJ23556 3' AGGCAGAACGGATCACTT 2101 AATTA
AAGT ATTTTCTGCCT
||| |||||||||
TTCA TAGGAAGACGGA
C_

GAM235 HSD17B7 3' AGGCAGAACGGATCACTT 1682 AATTA
AAGT ATTTTCTGCCT
||| |||||||||
TTCA TAGGAAGACGGA
C_

GAM235 IDN3 3' AGGCAGAAAAACTTGAAATAC 2415 A_ _
GTA TTAA TTTTCTGCCT
||| |||||||||
CAT AGTT AAAAAGACGGA
AA C

GAM235 KIAA1456 3' AGGCAGAACGGATCACTT 2772 AATTA
AAGT ATTTTCTGCCT
||| |||||||||
TTCA TAGGAAGACGGA
C_

GAM235 NXPH3 3' AGACAGAAATGTTACTTC 2727 TAATT C
GAAGTAAT TTTCTG CT
||||| ||||| ||
CTTCATTG AAAGAC GA
T_ A

GAM235 PNPASE 3' GAGGCAGAACGGATCACTTCA 2901 AATTA
TGAAGT ATTTTCTGCCTC
||||| |||||||||

ACTTCA TAAGAAGACGGAG
C
GAM235 SPRY4 3' AGGCAGAAGAACACTT 2176 AATTA
AAGT ATTTTCTGCCT
|||| |||||
TTCA TAAGAAGACGGA
C
GAM235 ZNF33A 3' AGGCAGAAGAACACTT 3519 AATTA
AAGT ATTTTCTGCCT
|||| |||||
TTCA TAAGAAGACGGA
C
GAM235 LOC126282 3' AGGCAGGATAATCACTT 2999 A ATTT
AAGT ATTA TTCTGCCT
|||| |||||
TTCA TAAT AGGACGGA
C
GAM235 LOC144583 3' AGGCAGGATAATCACTT 3068 A ATTT
AAGT ATTA TTCTGCCT
|||| |||||
TTCA TAAT AGGACGGA
C
GAM235 LOC145231 3' AGGCAGGCGAATTACTTCA 3273 AATTTT
TGAAAGTAATT TCTGCCT
|||||| |||||
ACTTCATTAA GGACGGA
GC
GAM235 LOC147837 3' AGGCAGGATAATCACTT 3113 A ATTT
AAGT ATTA TTCTGCCT
|||| |||||
TTCA TAAT AGGACGGA
C
GAM235 LOC149910 3' GAGACAGAACATTTAGTTACTT 3141 TTT C
CA TGAAAGTAATTAA TTCTG CTC
|||||| |||||
ACTTCATTGATT AAGAC GAG
TCT A
GAM235 LOC158160 3' AGGCAGAAGGATCACTT 2967 AATTA
AAGT ATTTTCTGCCT
|||| |||||
TTCA TAGGAAGACGGA
C
GAM235 LOC158292 5' AGGCAGAAGAACACTT 3385 AATTA
AAGT ATTTTCTGCCT
|||| |||||
TTCA TAAGAAGACGGA
C
GAM235 LOC162333 5' GAAGCAGAAGATACTACTTTA 3401 ATTAAT C
TGAAAGTA TTTCTGC TC
|||| |||||

		ATTCAT	AGAAGACG AG			
		CAT	A			
GAM235	LOC200057 5'	GAAGCAGAAAGAGGTTACTT	3437	AA	C	
		AAGTAATT	TTTTCTGC TC			
		TTCATTGG	AGAAAGACG AG			
		—	A			
GAM235	LOC202018 3'	GCTTTAAAACTAATTACTTCA	3460	A	TCT	
		TGAAGTAATTA	TTTT GC			
		ACTTCATTAAT	AAAA CG			
		C	TTT			
GAM235	LOC219392 5'	GCAGAGGGAACCGAGCTTCA	3511	AATTAA		
		TGAAGT	TTTTCTGC			
		ACTTCG	AGGGAGACG			
		ACCA	—			
GAM236	TACC1	3'	TAATTGGTAGCCATCTCATG	1285	C	_
		CGTGA	GTGGT ATCAATT			
		GTACT	TACCG TGGTTAAT			
		C	A			
GAM237	EIF4G2	3'	AAGCAGAGGCAGTCTATTG	827	T	GTAAG
		CAAT AGAC	TTCTGCTT			
		GTTA TCTG	GAGACGAA			
		—	ACG	—		
GAM237	PEX12	3'	AAGCAAAATACTAATCTAATTG	727	CGTAA	C
		TG	TACAATTAGA	GTT TGCTT		
		GTGTTAATCT	TAA ACGAA			
		AATCA	A			
GAM237	LOC130162 3'	AAGCAGAACAGATACTTAATT	3009	AC	AA	
		AATTAG	GT GTTCTGCTT			
		TTAAC	TA CAAGACGAA			
		CA	GA			
GAM237	LOC152573 3'	AAGCAAAGAAAAATACCTAATT	3172	AC	AG_	_
		GTA	TACAATTAG	GTA	TTCT	GCTT
		ATGTTAAC	CAT AAGA CGAA			
		—	AAA AA			
GAM238	FACL2	3'	AGAGTACATGTATTATAT	1942	TTT	A
		ATGTAATACA	TG ACTCT			
		TATATTATGT	AC TGAGA			
		—	A			
GAM238	PTER	3'	AGTCAAAATATTACAT	2154	C	A
		ATGTAATA	TTTTGA CT			

TACATTAT TAAACT GA
A _
GAM238 ATP6V1G1 3' AGAATTCAAGAACCTGTTACAT 1163 CA_ C
GTA TACATGTAATA TTTGAA TCT
||||||| ||||| |||
ATGTACATTGT AGAACCTT AGA
TCA A

GAM238 GFR 3' AGATGCAAATGTATTACTGTA 1423 T T AAC
TACA GTAATACATT G TCT
||||| ||||| | |||
ATGT CATTATGTAAA C AGA
_ _ GT_

GAM238 KIAA0349 3' TTTGGAATGTATCATATGTA 3562 A TG
TACATGT ATACATT AA
||||| ||||| ||
ATGTATA TATGTAAG TT
C GT

GAM238 RGS20 3' AAGATGTGACCACTACATGTA 1049 A _____
TACATGTA TACATT
||||| |||||
ATGTACAT GTGTAGAA
CACCA

GAM238 LOC253573 3' GAGTTCAAAAGTACCACA 3725 AA A
TGT TAC TTTGAACTC
||| ||| |||||
ACA ATG AAAACTTGAG
CC _

GAM238 LOC83690 3' AGATGAACTAATGTATTACATT 2203 C TTGAAC
A ATGTAATACATT TCT
| ||||| | |||
A TACATTATGTAA AGA
T TCAAGT

GAM239 RBM8A 3' AATGTTCCATTTTGTTC 1186 A_
GAAAACAAAAAT GATATT
||||| |||||
CTTTGTTTTA TTGTAA
CC

GAM239 SLC7A6 3' GTCTGTTTTGTTCCGA 1078 AA
TCG AACAAAAATAGAT
||| |||||
AGC TTGTTTTGTCTG
CC

GAM239 SEMA3E 3' AGTGTATTTCAGTTTC 1432 AA
GAAAAC AAATAGATATT
||||| |||||
CTTTG TTTATTTGTGA
AC

GAM239 LOC151201 3' AATGTCATTTGTTTT 3339 A
GAAAACAAAAAT GATATT
||||| |||||

TTTTTGTAAAAA CTGTAA

GAM239 LOC90979 3' AATAATATTTTTTGT 2692 T
AAAACAAAAA AGATATTATT
||||||| |||||
TTTTGTAAAAA TTTATAATAA

GAM240 ZIC1 3' CGAACAAACAAACCCCCACAC 1017 ATAGA AC
A TGT GG GTTTGATTG
||| ||| |||||
ACA CC CAAACTAAGC
CACCC AA

GAM240 KIAA1550 3' CAGGACGTCCCTACACA 2752 A
TGT TAGAGGACGTTTG
||| |||||
ACA ATCTCCTGCAGGAC
C

GAM240 LOC143720 3' TCAAAGCTCCCCTATACA 2568 A C
TGTATAG GGA GTTTGA
||| ||| |||||
ACATATC CCT CGAAACT
C _

GAM240 LOC150848 5' TCAAATCCCTTTGTCTCTATA 3335 G TTTT_ C
CA TGTATAGAG ACG GATT GA
||||||| ||| |||||
ACATATCTC TGT CTAA CT
_ TTTCC A

GAM241 MAIL 3' AGCTTTGTAGATAAA 2194 AC
TTTATCTACAG AGACT
||||||| |||||
AAATAGATGTT TCTGA

GAM241 LOC151414 3' ATTATTCTTAGATCTGTAGATA 3157 C__ C
TATCTACAGA AGA TAAT
||||||| ||| |||||
ATAGATGTCT TCT ATTA
AGAT T

GAM241 LOC155038 3' AGCTATTGTAGATAAA 3197 C A
TTTATCTACAGA AG CT
||||||| ||| |||||
AAATAGATGTT TC GA
A _

GAM242 CRH 3' TTACTTAGCATGCACAAA 772 A GA
TTTGT CA CTAAGTAA
||||| ||| |||||
AAACAGT GATTCA
C AC

GAM242 C1orf24 3' AAGAATTTCTGTACA 2351 CTAAGT
TGTACAGA AATTCTT
||||||| |||||

	ACATGTCT	TTAAGAA	
	T_____		
GAM242	C21orf67 5' AAAGATACTCACCTGTACAAA 2367		ACTA AT
	TTTGTACAG AGTA TCTTT		
	AAACATGTC TCAT AGAAA		
	CAC_ _		
GAM242	KIAA0940 3' AAGAAATGTCTGTACAAA 1585		TAAGTAA
	TTTGTACAGAC TTCTT		
	AAACATGTCTG AAGAA		
	TA_____		
GAM242	LOC158722 3' AAAGAATTATATTGCTGACAAA 3225		A ACTAA
	TTTGT CAG GTAATTCTTT		
	AAACA GTC TATTAAGAAA		
	_ GTTA_		
GAM242	LOC220705 3' AATGTCTTAGTTGTACAAA 3514		A TA
	TTTGTACAG CTAAG ATT		
	AAACATGTT GATTC TAA		
	_ TG		
GAM243	ACVR1 3' AAGCAAAGATTCAGTAGA 800		A
	TCT TTGAAATCTTT CTT		
	AGA GACTTTAGAAA GAA		
	T C		
GAM243	CELSR1 3' AAGTAAAATGCAAAGATGT 1486		AAATC
	ACATCTTG TTTACTT		
	TGTAGAAAC AAATGAA		
	GTA_		
GAM243	GJA1 3' AAGTAGTGGATTCAAAGA 715		A T
	TCTTGAA TC TTACTT		
	AGAAACTT GG GATGAA		
	A T		
GAM243	PLN 3' AAGTAATTTTTCAAAGA 945		TCT
	TCTTGAAA TTACTT		
	AGAAACTTT AATGAA		
	TTT		
GAM243	CNOT7 3' AAGTAAAGATATAATTAGAGAT 2363		A_____
	ATCTTGAA ATCTTTACTT		
	TAGAGATT TAGAAATGAA		
	AATA		
GAM243	Grc9 3' AAGTAAAAATAGTAAGAGATGT 2268		GAA_ C
	T AACATCTT AT TTACTT		

TTGTAGAGA TA AAATGAA
ATGA A
GAM243 KIAA1287 3' AAGTAGAAATCTCAAAGAT 3106 A C
ATCTTGAA AT TTACTT
|||||| || |||||
TAGAAACT TA AGATGAA
C A

GAM243 KIAA1673 3' AAGTGTTGATTCAAGAGATGT 2894 A TT_
ACATCTTGAA TC TACTT
|||||| || |||||
TGTAGAGACTT AG GTGAA
_ TTT

GAM243 LHFP 3' AAGCAAGGTACCCCCAAAGATG 1248 AAAT__ A
TT AACATCTTG CTTT CTT
|||||| |||| |||||
TTGTAGAAC GGAA GAA
CCCCAT C

GAM243 PDE10A 3' AAGTAGCAGTTCAAAAGATGT 1320 GA CT
ACATCTTT AAT TTACTT
|||||| |||| |||||
TGTAGAAA TTG GATGAA
AC AC

GAM243 TBDN100 3' AAGTAAAGATTATCTGAT 2135 TTTG
ATC AAATCTTACTT
||| |||||||||
TAG TTTAGAAATGAA
TCTA

GAM243 LOC149448 3' GTAATTTCAAAGATG 3310 TCT
CATCTTGAAA TTAC
|||||| |||||
GTAGAAACTT AATG
T__

GAM243 LOC155434 3' AGTGGCGATTCAAAGATG 3375 A T
CATCTTGAA TC TTACT
|||||| || |||||
GTAGAAACTT AG GGTGA
_ C

GAM243 LOC221583 3' AAGTATACTACTCTCAAAGGTG 3557 AATCTT__
T ACATCTTGAA TACTT
|||||| |||||
TGTGGAAACT ATGAA
CTCATCAT

GAM243 LOC54466 3' AAGTGGCAACTGTCAAAGATG 1871 AATCT_
CATCTTGAA TTACTT
|||||| |||||
GTAGAAACT GGTGAA
GTCAAC

GAM244 MECP2 3' CCAGAGACAAATATTCTAGA 1167 C C AA_
TC AGAGATAT TTGT TGG
|| ||||| |||| |||||

AG TCTTTATA AACA ACC
 A _ GAG
 GAM244 ATP10B 3' CCAGGCAATATCTCAGGATA 2655 A CT AA
 TATCC GAGATAT TGT TGG
 ||||| ||||| ||| |||
 ATAGG CTCTATA ACG ACC
 A _ G_
 GAM244 BDG-29 3' CCATTACAGTGGCCTGGATA 2943 AGA CT
 TATCCAG TAT TGTAATGG
 ||||| ||| |||||
 ATAGGTC GTG ACATTACC
 CG_ _
 GAM244 GW112 3' CCACTTACTTAGATATCTGCAG 1298 CAG T_ _
 ATA TATC AGATATCT GTAA TGG
 ||||| ||||| ||| |||
 ATAG TCTATAGA CATT ACC
 ACG TT C
 GAM244 HSPB7 3' CCATTACAACAGCTCCAGGA 1498 A_ ATATC
 TCC GAG TTGTAATGG
 ||| ||| |||||
 AGG CTC AACATTACC
 AC GAC_
 GAM244 KIAA1464 3' CCAGTATTATCTCTGGGA 2813 TCTT A
 TCCAGAGATA GTA TGG
 ||||||| ||| |||
 AGGTCTCTAT TAT ACC
 T__ G
 GAM244 KIAA1634 3' CCACCAACTATTTCTGGATA 2656 TC TAA
 TATCCAGAGATA TTG TGG
 ||||||| ||| |||
 ATAGGTCTTAT AAC ACC
 C_ C_
 GAM244 NETO1 3' CCATCATCTCATCTCTGGATG 2463 ATCT TA
 TATCCAGAGAT TG ATGG
 ||||||| ||| |||
 GTAGGTCTCTA AC TACC
 CTCT __
 GAM244 PRO2533 3' CCATTACAAAATGTAATGG 1854 GAG C
 CCA ATAT TTGTAATGG
 ||| ||| |||||
 GGT TGTA AACATTACC
 AA_ A
 GAM244 LOC151201 3' TGTAAAATACCTCTGGATA 3343 A C
 TATCCAGAG TAT TTGTA
 ||||||| ||| |||||
 ATAGGTCTC ATA AATGT
 C A
 GAM245 FLJ14124 3' CAAAACGAGTAAAGAGCAG 2099 T TAAAG
 CT CTT TACTCGTTTG
 ||| ||| ||||| |||

GA GAG ATGAGCAAAAC
 C AA_

GAM245 FLJ20039 3' TGGGATAACTTAAAGAA 1735
 TTCTTAAAGTA CTCG
 ||||| |||||
 AAGAAATTCAT GGGT
 CAATA

GAM245 FLJ21369 5' CAAAACCTGAAACTTAAAGGA 2090 ACTC_
 TTCTTAAAGT GTTTTG
 ||||| |||||
 AGGAAATTC ACAAAC
 AAGTC

GAM245 KIAA1577 5' ATGGGTACCCAGAGAAG 2690 AAA
 CTTCTT GTACTCGT
 ||||| |||||
 GAAGAGA CATGGGTA
 CCC

GAM245 LOC144524 3' CAAAACAAGGCATAAAGAAGT 3269 AAGTA C
 ACTTCTTA CT GTTTTG
 ||||| |||||
 TGAAGAAAT GA CAAAC
 ACG_ A

GAM245 LOC150170 5' CAAAATGGAACCTTAAACAGT 3143 TC A T
 A TACT TTTAAAGT C CGTTTG
 ||||| |||||
 ATGA AAATTCAG GTAAAAC
 CA A_

GAM245 LOC150175 5' CAAAATGGAACCTTAAACAGT 3144 TC A T
 A TACT TTTAAAGT C CGTTTG
 ||||| |||||
 ATGA AAATTCAG GTAAAAC
 CA A_

GAM245 LOC150215 5' CAAAATGGAACCTTAAACAGT 3145 TC A T
 A TACT TTTAAAGT C CGTTTG
 ||||| |||||
 ATGA AAATTCAG GTAAAAC
 CA A_

GAM245 LOC150218 5' CAAAATGGAACCTTAAACAGT 3146 TC A T
 A TACT TTTAAAGT C CGTTTG
 ||||| |||||
 ATGA AAATTCAG GTAAAAC
 CA A_

GAM246 CCRL1 3' TGTAACCTCCTGTGAATT 1697 G A C
 TAAATTG CAGGAA GT ACA
 ||||| |||||
 ATTTAAGT GTCCTT CA TGT
 _ _ A

GAM246 PAFAH1B1 3' TGTGACTTCCAAGTAGAATT 741 G A_ A
 TAAATTG GC GGAA GTCACA
 ||||| |||||

ATTTAAG TG CCTT CAGTGT
A AA _
GAM246 PSMB9 3' TGACTTTCTCTCAAACCTGGA 956 AA C C
TCTA TT GG AGGAAAGTCA
||| || |||||||||
AGGT AA CT TTCTTCAGT
CC A C

GAM246 SLC4A4 3' TGTGACTTTATGGAATTAAGA 1055 A GG G
TCT AATTC CA GAAAGTCACA
||| ||||| |||||||||
AGA TTAAG GT TTTTCAGTGT
A __ A

GAM246 TNFAIP1 3' TGACTTTCCCACAGAGACTGGA 1944 AA GGCA
TCTA TTC GGAAAGTCA
||| ||| |||||||||
AGGT GAG CCTTCAGT
CA ACAC

GAM246 CAT56 3' GTGACTTCCCAGCACTAGA 2149 AATTAG A A
TCTA GC GG AAGTCAC
||| || |||||||||
AGAT CG CC TTCAGTG
CA__ A C

GAM246 FLJ10520 3' TGTGACTTCTGGACCTTAGA 1785 ATTC CA_
TCTAA GG GGAAAGTCACA
||| || |||||||||
AGATT CC TCTTCAGTGT
___ AGG

GAM246 FLJ14001 5' TGCGACCCCCCTGCCCGAAT 2081 ___ AAA A
ATTC GGCAGG GTC CA
||| ||||| |||||
TAAG CCGTCC CAG GT
CC CCC C

GAM246 FLJ14917 3' TGTGACTTCTGGTGCATCCA 2290 AA T G
GG TCT AT CG CAGGAAAGTCACA
||| || |||||||||
GGA TA GT GTCCTTCAGTGT
CC C G

GAM246 KIAA0618 3' TGTGACTTGGCCCCAAATTG 1564 C CA _
TAAATT GG GG AAAGTCACA
||| || |||||||||
GTTTAA CC CC TTTCAGTGT
A __ G

GAM246 KIAA1750 3' GACTTTCCCCATTAG 2812 TTC CA
CTAAA GG GGAAAGTC
||| || |||||||||
GATTT CC CCTTCAG
TA__

GAM246 MAGEF1 3' GTGACTTTAAGGATTAGA 2555 GGCAGG
TCTAAATTC AAAGTCAC
||||||| |||||||||

		AGATTTAGG TTTCAGTG	
		AA_____	
GAM246	LOC253017 5'	TGACTTTCACCAATTAA 3685	C CAG
		TAAATT GG GAAAGTCA	
		ATTTAA CC CTTTCAGT	
		_ A_____	
GAM246	LOC51705 3'	TGACTTTCCCTTAATGTTA 1674	TCGGC
		TAAAT AGGAAAGTCA	
		ATTTG TCCTTCAGT	
		TAAT_____	
GAM247	BCL11B 3'	AATGGTGGGTCTATAAATTGT 2019	AT TT
		ATAAAATTATA G CGCCATT	
		TGTTTAAATAT T GTGGTAA	
		C_GG	
GAM247	FGFR4 3'	AATGGCGTTTATAAATT 2022	TGTT
		AATTTATAA CGCCATT	
		TTAAATATT GCGGTAA	
		TT_____	
GAM247	FGFR4 3'	AATGGCGTTTATAAATT 887	TGTT
		AATTTATAA CGCCATT	
		TTAAATATT GCGGTAA	
		TT_____	
GAM247	FLJ22833 3'	AATGGCCGGGACTTATAAAT 2015	T _____
		ATTATCAA GTTC GCCATT	
		TAAATATT CAGG CGGTAA	
		_ GGC	
GAM247	SSH2 3'	AATGGCCGGCTTGCAAATTAA 2625	A AT TC
		ATAAATT TA GT GCCATT	
		TATTTAAA GT CG CGGTAA	
		C CT GC	
GAM248	RARB 3'	TTCACAAGCCATTAGGGA 792	AA C
		TCCCTAAC TTT GTGAA	
		AGGGATTA GAA CACTT	
		CC _	
GAM248	RARB 3'	TTCACAAGCCATTAGGGA 1663	AA C
		TCCCTAAC TTT GTGAA	
		AGGGATTA GAA CACTT	
		CC _	
GAM248	BTN2A2 3'	CACTTAGAAGTTATTGAGGA 1344	C _____
		TCC TAATAACTTC GTG	

AGG GTTATTGAAG CAC
A ATT
GAM248 ZNF337 3' TTACCTGGGCTATTGGGGA 2806 A_ TC
TCCCTAATA CT GTGA
|||||| || ||||
AGGGGTTAT GG CATT
CG TC

GAM248 LOC139231 3' TCACTTGAGAAGTTGTTAGG 3021 _____
CCTAATAACTTC GTGA
|||||||| |||||
GGATTGTTGAAG CACT
AGTT

GAM248 LOC221399 5' CACTCAAGTCATTAGGGA 3622 A C_
TCCCTAAT ACTT GTG
|||||| |||||
AGGGATTA TGAA CAC
C CT

GAM249 DKFZp762E1511 3' AGGTTGGAAATGCACTGAA 2530 C AT
TTCAG GTG TTTCCAACCT
|||| || |||||||
AAGTC CGT AAAGGTTGGA
A _

GAM249 LOC123591 5' AGGTTGGAAAAGGCTCCGC 3032 T _____
GCG GA TTTTCCAACCT
||| || |||||||
CGC CT AAAAGGTTGGA
- CGG

GAM250 EFNB2 3' GTTGAAAAGCCAAAGGT 1085 C TTA
GCCT TGGCTTT TCAGC
|||| ||||| |||||
TGGA ACCGAAA AGTTG
A _

GAM250 FACL4 5' AGGCTTTCAAAAGCCAAAG 2025 C TATC
CT TGGCTTT AGCCT
|| ||||| |||||
GA ACCGAAAA TCGGA
A CTT_

GAM250 GATA2 3' AGGCTGGGCTGAGCCAAAGC 892 CTC TTTA
GC TGGCTT TCAGCCT
|| ||||| |||||
CG ACCGAG GGTCGGA
AA_ TCG_

GAM250 IRS2 3' CTGATAAAAAGAGGC 2540 GGCT
GCCTCT TTTTATCAG
|||| |||||
CGGAGA AAAATAGTC

GAM250 PAH 5' AGGCCCTAAAAAGCCAGAG 725 TCA
CTCTGGCTTTTA GCCT
|||||||| |||||

GAGACCGAAAAAT CGGA
 CC_
 GAM250 PODXL 3' GCTGCACAGGAGGCCAGA 1207 AT_
 TCTGGCTTTT CAGC
 ||||| |||||
 AGACCGGAGGA GTCG
 CAC

GAM250 RPL15 3' GCTGGTGAGCCAGTGGC 973 T TTT
 GCC CTGGCTT ATCAGC
 ||| ||||| |||||
 CGG GACCGAG TGGTCG
 T —

GAM250 SERPINE1 3' AGGCTGGTGACAGGCCAAAGGC 758 C T
 GCCT TGGCTT TTATCAGCCT
 ||||| ||||| |||||
 CGGA ACCGGA AGTGGTCGGA
 A C

GAM250 ABIN-2 3' GCTTAAGCCAGAGCTA 2057 C TTTATC
 TAGC TCTGGCTT AGC
 ||||| ||||| |||
 ATCG AGACCGAA TCG
 — T —

GAM250 C20orf48 5' GGCCGAGGGACAAAGGCTA 2118 C G TTTA A
 TAGCCT TG CTT TC GCC
 ||||| ||||| |||||
 ATCGGA AC GGG AG CGG
 A A — C

GAM250 C9orf7 3' AGACTGGCTTAAGCCAGGAGC 1724 CT TTTA C
 GC CTGGCTT TCAG CT
 ||| ||||| |||||
 CG GACCGAA GGTC GA
 AG TTC_ A

GAM250 DUSP10 3' CTGACAAATTAAGGAGGT A 1364 GGCTT A
 TAGCCTCT TTT TCAG
 ||||| |||||
 ATTGGAGG AAA AGTC
 AATT_ C

GAM250 DUSP10 3' CTGACAAATTAAGGAGGT A 2501 GGCTT A
 TAGCCTCT TTT TCAG
 ||||| |||||
 ATTGGAGG AAA AGTC
 AATT_ C

GAM250 ERMAP 3' GCTGATGGCCTGTCCAAAGGC 1838 C _ TTT_
 TA TAGCCT TGG C TTATCAGC
 ||||| |||||
 ATCGGA ACC G GGTAGTCG
 A T TCCT

GAM250 FLJ12892 3' GCTGATAAAGAAGTGCTA 2802 CT GGC C
 TAGC CT TTTTATCAG C
 ||||| ||||| |

ATCG GA AGAAATAGTC G
 T_ _ A
 GAM250 FLJ22059 5' GACTGGAGAGCCAGAGGC 2003
 GCCTCTGGCTTTA TC
 ||||||||| ||
 CGGAGACCGAGAGGT AG
 C
 GAM250 HEMK 3' GGCCAAAGCCAGAGACT 1669 C TTATCA
 AG CTCTGGCTTT GCC
 ||||||||| |||
 TC GAGACCGAAA CGG
 A C_____
 GAM250 KIAA0227 3' GGGCCCCAAAAGACCAGAGGC 2578 _ TATCA
 GCCTCTGG CTTTT GCCT
 ||||||| |||||
 CGGAGACC GAAAAA CGGG
 A CCC_____
 GAM250 KIAA0527 3' GAATAAAAGCCAGAGACTG 3684 C TA
 TAG CTCTGGCTTT TC
 ||||||||| ||
 GTC GAGACCGAAAA AG
 A TA
 GAM250 KIAA1244 3' AGGCTTCAGTAAAGCAGAGGC 2930 G TTATC
 A TAGCCTCTG CTTT AGCCT
 ||||||| |||||
 ATCGGAGAC GAAA TCGGA
 _ TGACT
 GAM250 KIAA1649 3' TGAAAAAAACCGAGAGCT 2771 C C A
 AG CTCTGG TTTTT TCA
 ||||||| |||||
 TC GAGACC AAAAAA AGT
 A _ A
 GAM250 KIAA1981 3' AGGCCACGGGAGCCGAGGC 3431 T TATCA
 GCCTC GGCTTT GCCT
 ||||||| |||||
 CGGAG CCGAGGG CGGA
 _ CAC_____
 GAM250 MGC2306 3' AGGCTGGGCTGAGCCAAAGC 2266 CTC TTTA
 GC TGGCTT TCAGCCT
 ||||||| |||||
 CG ACCGAG GGTCGGA
 AA_ TCG_____
 GAM250 RPL39L 5' GTGGGAAAAAAGCAGAGGC 2352 G A A
 GCCTCTG CTTTT TC GC
 ||||||| |||||
 CGGAGAC GAAAAA GG TG
 _ A G
 GAM250 SNPH 3' CTGAAAAAGCCAGAGGC 1531 TA
 GCCTCTGGCTTT TCAG
 ||||||||| |||||

CGGAGACCGAAAA AGTC

GAM250 TMG3 3' GCCCCC~~GGGAAGAGCCAAAGGC~~ 2053 C ATCA_

GCCT TGGCTTTT GC

|||| ||||| ||

CGGA ACCGAGAAG CG

A GGCCCC

GAM250 LOC145240 3' GCTCGAAAAGGCAAAGGCTA 3076 C G ATC

TAGCCT TG CTTTTT AGC

|||||| ||||| |||

ATCGGA AC GAAAAG TCG

A G C_

GAM250 LOC146287 5' AGGCTGAACAGCAAACCCAGAG 3284 C TTA_

GC GCCTCTGG TTT TCAGCCT

||||||| ||| |||||

CGGAGACC AAA AGTCGGA

C CGACA

GAM250 LOC148696 5' AGACTGTACAGGAAACCTAAGG 3301 CT C AT_ C

GCCT GG TTTTT CAG CT

|||| ||||| ||| ||

CGGA CC AAGGA GTC GA

AT A CAT A

GAM250 LOC150577 3' AGGCCGACAACCACCAAGAGCT 3330 C CTTTTTA A

G TAGC TCTGG TC GCCT

||||||| |||||

GTCG AGACC AG CGGA

A ACCAAC_ C

GAM250 LOC151521 3' TGTTTAAAAACCCAAAGGC 3347 C C T_

GCCT TGG TTTTTA CA

||||||| |||

CGGA ACC AAAAAT GT

A C TT

GAM250 LOC157273 5' AGGCTGGATGAAGCCAGGGGCT 3379 TTA

A TAGCCTCTGGCTTT TCAGCCT

||||||| |||||

ATCGGGGACCGAAG GGTCGGA

TA_

GAM250 LOC163682 5' GAGCCAAAAGCCAGAGCCTA 3398 C TA_

TAG CTCTGGCTTT TC

||||||| ||

ATC GAGACCGAAAA AG

C CCG

GAM250 LOC221749 3' GCTGAGGTCACAGCCGGAGGC 3549 TTTTA_

GCCTCTGGCT TCAGC

||||||| |||||

CGGAGGCCGA AGTCG

CACTGG

GAM250 LOC222234 3' AGGCTGATGCCCAAAAGGC 3646 C_ CTTTT

GCCT TGG TATCAGCCT

|||| ||| |||||

CGGA ACC GTAGTCGGA
 AA CC
 GAM251 ADAMTSL1 3' AACCATTAGAGGTGCAATCTAC 2479 _ CA_ TTA
 A TG AGAT ACT TCTAATGGTT
 ||||| |||||
 AC TCTA TGG AGATTACCAA
 A ACG __

GAM251 KIAA1862 3' AACCAACCAGCCGTTCCCTGATCT 2834 ACTTTAT AA
 CA TGAGATCA CT TGGTT
 ||||| |||||
 ACTCTAGT GA ACCAA
 CCTTGCC CC

GAM251 LOC153951 5' AACCATGAAAGACAGAGTTGAT 3184 A A__
 CTCA TGAGATCAACTTT TCT ATGGTT
 ||||||||| |||||
 ACTCTAGTTGAGA AGA TACCAA
 C AAG

GAM251 LOC221596 3' AACCAATTAGACAAAACTCTTCT 3548 TCAAC A
 AGA TTT TCTAATGGTT
 ||| |||||
 TCT AAA AGATTACCAA
 TCTCA C

GAM252 ESAM 3' CTTTACTGTGGGAAAACCATCT 2461 GA A AC
 CA TG AT GTTTTTT TAGTAAAG
 || ||||| |||||
 AC TA CAAAAGG GTCATTTC
 TC C GT

GAM252 KIAA0379 3' ACTAAGAAAACTATTC 2809 AC
 TGGAATAGTTTTTT TAGT
 ||||||||| |||||
 ACTTTATCAAAAGA ATCA

GAM252 LOC161784 3' CTTTAATTTAAAAAACGTATT 3241 CTAG
 CCA TGGAATA GTTTTTA TAAAG
 ||||| ||||| |||||
 ACCTTAT CAAAAAAT ATTTC
 G TTTA

GAM252 LOC255229 3' CTTTAATTTAAAAAACGTATT 3676 CTAG
 CCA TGGAATA GTTTTTA TAAAG
 ||||| ||||| |||||
 ACCTTAT CAAAAAAT ATTTC
 G TTTA

GAM253 HIP2 3' TGTTTTAACATGGATC 1201 G
 GAT CCATGTTAAAATG
 ||| |||||
 CTA GGTACAATTTTGT

GAM253 ITK 3' TATTTTAACATGAATC 1224 GC
 GAT CATGTTAAAATG
 ||| |||||
 CTA GGTACAATTTTGT

CTA GTACAATTTTAT
A_

GAM253 ONECUT1 3' GCGGACATCTTTAAGAT 2622 G _
AT TTAAAAA ATGTCCGC
|| ||||| |||||
TA AATTTT TACAGGGCG
G C

GAM253 BTN3A2 5' GACATTTTGGCAGAGCAT 1354 CA
ATGC TGTTAAAAATGTC
||| |||||||||
TACG ACGGTTTTACAG
AG

GAM253 BTN3A3 5' GACATTTTGGCAGAGCAT 1343 CA
ATGC TGTTAAAAATGTC
||| |||||||||
TACG ACGGTTTTACAG
AG

GAM253 IDN3 3' GGCAAACATTTTGTGG 2416 GTT CC
CCAT AAAATGT GCC
||| ||||| |||
GGTG TTTTACA CGG
AA

GAM253 KIAA1635 3' CGGACATTATTCATC 2803 CAT TAA
GATGC GT AAATGTCCG
|||| || |||||
CTACG TA TTTACAGGC
TT_ __

GAM253 LOC130106 3' GGCAAACACCTGACATGGCA 3008 AAAA CC
TGCCATGTTA TGT GCC
||||||| ||| |||
ACGGTACAGT ACA CGG
CC_ AA

GAM253 LOC151031 3' GGCATCTAACATGGCATT 3403 AA
GATGCCATGTTAA ATGTC
||||||| |||||
TTACGGTACAATT TACGG
C_

GAM253 LOC162545 3' GGCATCTACATGGCATC 3402 TAAAAA
GATGCCATGT ATGTC
||||||| |||||
CTACGGTACA TACGG
TC_

GAM253 LOC165666 5' GGCAGGGTTTTAAATAGCATC 3257 CATG GT _
GATGC TTAAAAAT CC GCC
|||| ||||| |||||
CTACG AATTTTG GG CGG
ATA_ _ A

GAM254 MEN1 5' AATGACTTGGGGATGATGC 3599 A
GCATCATCTTAG TCATT
||||||| |||||

CGTAGTAGGGGTT AGTAA
C
GAM254 SRD5A2 5' AATTAATGATGAGGTTACATGC 2525 C__ TAG
T AGCAT ATCTT ATCATTAATT
||||| |||||
TCGTA TGGAG TAGTAATTAA
CAT _____

GAM254 DKFZP564O043 3' TGATGTCTGAAGATAATGCT 3566 C T
AGCAT ATCTTAGA CATTA
||||| |||||
TCGTA TAGAAGTCT GTAGT
A _____

GAM254 FLJ22794 5' AATTAATGACAGCTTGAAGAT 3533 _____
ATCTTAGA TCATTAATT
||||| |||||
TAGAAGTTT AGTAATTAA
CGAC

GAM254 HTMP10 3' AATTGTTATCTAAAGATGATT 2322 C CAT
T AG ATCATCTTAGAT TAATT
|| ||||||| |||||
TC TAGTAGAAATCTA GTTAA
T TT_

GAM254 SEC24B 3' AATTAATGGTAACGATGATGCT 1288 TTTAG
AGCATCATC ATCATTAATT
||||| |||||
TCGTAGTAG TGGTAATTAA
CAA_

GAM254 LOC196812 5' AATGATCTAGTCAGAAGCT 3466 A ATCT
AGC TC TTAGATCATT
||| || |||||
TCG AG GATCTAGTAA
A ACT_

GAM255 ATRN 3' TAAGGGAGGTCTGTGCATTTA 2480 A AAT A
TAAAAT CA GAC TTCCCTTA
||||| || |||||
ATTTTA GT CTG GAGGGAAT
C GT_ _

GAM255 CD59 3' AATGACATTTGTATTTA 760 A
TAAAATACAAATG CATT
||||| |||||
ATTTTATGTTTAC GTAA
A

GAM255 CENTD1 3' GGATCATTGTATTTG 1615 CAT
TAAAATACAAATGA TCC
||||| ||||| |||
GTTTATGTTTACT AGG

GAM255 CENTD1 3' GGATCATTGTATTTG 2474 CAT
TAAAATACAAATGA TCC
||||| ||||| |||

GTTTATGTTACT AGG

GAM255 CLNS1A 3' GAGGGTATTGTAGTTA 816 A ACATT
TAAA TACAAATG CCCTT
||||||| |||||
ATTT ATGTTAT GGGAG
G _____
GAM255 NDUFA5 3' AGTGTCACTTTATTTA 1169 C
TAAAATA AAATGACATT
||||||| |||||
ATTTAT TTACTGTGA

GAM255 PBX3 3' GGAATCATAATCATTTGTATT 1279 C_____
AAATACAAATGA ATTCC
||||||| |||||
TTTATGTTACT TAAGG
AATAC
GAM255 SCD 3' TAAGGGAAGATCACTGTAGTT 1178 A AA CA
A TAAA TACA TGA TTCCCTTA
||||||| |||||
ATTT ATGT ACT AAGGGAAT
G C_ AG
GAM255 SLC2A2 3' TAAGGGAACCGTCTGTTTTA 731 T AAT A_
TAAAA ACA GAC TTCCCTTA
||||||| |||||
ATTTT TGT CTG AAGGGAAT
- ____ CC
GAM255 TCF7 3' TAAGGGAATCCCTTGTA 998 AT CA
TACAA GA TTCCCTTA
||||||| |||||
ATGTT CT AAGGGAAT
CC __
GAM255 DKFZP586B0923 3' AAGACATGTGATTGTATT 3589 G TCC
TAAAATACAAAT ACAT CTT
||||||| |||||
ATTTTATGTTA TGTA GAA
G CA_
GAM255 DKFZp761K1824 3' TAAGAGAATGTTGTGTATT 1726 AA C
AAATACA TGACATTC CTTA
||||||| |||||
TTTATGT GTTGTAAAG GAAT
____ A
GAM255 FLJ14624 3' TAAGGAAATATTTATTTGTATT 2913 C_ C
TT AAAATACAAATGA ATT CCTTA
||||||| |||||
TTTATGTTATT TAA GGAAT
TA A
GAM255 GRO3 3' TAAGGGAATGTATGTA 2636 AATG
TACA ACATTCCCTTA
||||| |||||

ATGT TGTAAGGGAAT
 A_

GAM255 KIAA0907 3' AAGAAAGTTTATTGTATTT 1596 C CC
 A TAAAATACAAATGA ATT CTT
 ||||| ||||| |||||
 ATTTTATGTTTATT TGA GAA
 T AA

GAM255 MGC14289 3' AAGGATACTGTCATTCGCATTT 2382 A TTC_
 T AAAAT CAAATGACA CCTT
 ||||| ||||| |||||
 TTTTA GTTTACTGT GGAA
 C CATA

GAM255 NLP_1 3' AAGGGAATTTTTGTA 1395 T C
 TACAAA GA ATTCCCTT
 ||||| || |||||
 ATGTTT TT TAAGGGAA
 T _

GAM255 PARVA 3' GAGTGCTCCTTTGTATTTA 1802 T_ _
 TAAAATACAAA GA CATTC
 ||||| || |||||
 ATTTTATGTTT CT GTGAG
 TC C

GAM255 PRO2176 3' AAGGGCTGCATTGTATTTA 1833 A A TT
 TAAAATACAA TG CA CCCTT
 ||||| || |||||
 ATTTTATGTT AC GT GGGAA
 _ _ C_

GAM255 TIMM22 3' AAGGTTGGTTTATTGTATTT 3104 _ ATTC
 A TAAAATACAAATGA C CCTT
 ||||| ||||| I |||||
 ATTTTATGTTTATT G GGAA
 T GTT_

GAM255 LOC143914 5' GAGGGAGTCATTTATT 3061 C AT
 AATA AAATGAC TCCCTT
 ||||| || |||||
 TTAT TTTACTG AGGGAG

GAM255 LOC154862 3' AAGGGTCAAATTGTGTTTA 3193 GA TT
 TAAAATACAAAT CA CCCTT
 ||||| || |||||
 ATTTGTGTTTA GT GGGAA
 AA _

GAM255 LOC158314 3' AAGGGAATGTTAACCCATT 3386 ACAAAT
 AAAT GACATTCCCTT
 ||||| ||||| |||||
 TTTA TTGTAAGGGAA
 CCGAAT

GAM255 LOC221405 3' AAGGGACTATTTGTATT 3623 ACAT
 AATACAAATG TCCCTT
 ||||| || |||||

TTATGTTTAT AGGGAA
 C_____

GAM256 YES1 3' ATGATGAATTATCAGCGT 1209 A CCG
 AC CTGATAAA CATTAT
 ||||||| |||||
 TG GACTATT GTAGTA
 C AA_____

GAM256 ACTR3 3' GATGGGATTATCAGTGT 1238 _____ G
 ACAC TGATAAA CC CATT
 ||||||| |||||
 TGTGACTATTT GG GTAG
 A _____

GAM256 GENX-3414 3' CAGATAATGCTCCAGTG 1073 ATAAACC
 CACTG GCATTATCTG
 ||||| |||||||||
 GTGAC CGTAATAGAC
 CTT_____

GAM256 HT007 3' ACAGATAATAAATATCCAGTGT 1832 _____ AACCGC
 ACAC TG ATA ATTATCTGT
 ||||| ||| |||||
 TGTGAC TAT TAATAGACA
 C AAA_____

GAM256 SPRY4 3' ACAGACAATGCAGGGCAG 2175 ATAAA _ A
 CTG CC GCATT TCTGT
 ||| ||||| |||||
 GAC GG CGTAA AGACA
 GG____ A C

GAM257 POF1B 3' GAACCATGCTGCTACCCAA 2114 _____ TG A
 TTGGGTAGT GT ATG TTC
 ||||||| ||| |||
 AACCCATCG CG TAC AAG
 T ____ C

GAM257 RODH-4 5' CATGGGTAGCTACCCAATAAG 1050 GT_ G
 TTTATTGGTAGT T ATG
 ||||||| ||| |||
 GAATAACCCATCG G TAC
 ATG G

GAM257 SFRS12 3' GAATCATTGGGACTACCCA 2472 G TG
 TGGGTAGT T ATGATTTC
 ||||| | |||||
 ACCCATCA G TACTAAG
 G GT

GAM257 TCBAP0758 3' GAATCCCCAACACCCAATAAA 2181 AGT AT
 TTTATTGGGT GTTG GATTC
 ||||||| |||| |||||
 AAATAACCCA CAAC CTAAG
 ____ CC

GAM258 HYOU1 3' CTCTGTTTCCCCATTCA 2537 T TA
 C AGTG GAAAACAGAG
 | |||| |||||||

A TTAC CTTTGTC
C CC
GAM258 ITGB1 3' ATCTTGTTCACACTAGT 910 A A G
ACTAGTGT GAAA CA AGAT
|||||| |||||
TGATCACCA CTTT GT TCTA

GAM258 MAGEA4 3' TATCTCTGTTCCCTTTACA 922 —
TGTAGAA AACAGAGATA
|||||| |||||||
ACATTTT TTGTCCTAT
CCT

GAM258 PTTG1IP 3' ATCTCTGTTCTAGATTTAGT 1100 _ G A
ACTAG T TAGAAA CAGAGAT
||||| | ||||| |||||
TGATT A ATCTTT GTCTCTA
T G _

GAM258 RAB27A 3' ATCTCTGCTTACCGAC 1129 — AA
GT GTAGA ACAGAGAT
|| ||||| |||||||
CG CATT T GTCTCTA
AC C_

GAM258 SALL2 5' ATCTCTGCTTCACAGT 2671 A T AAAA
ACT GTG AG CAGAGAT
||| ||| || |||||
TGA CAC TC GTCTCTA
— T —

GAM258 SFRS7 3' TGCTTTCTACATTAGTTA 2529 A
TAACTAGTGTAGAAA CA
|||||||||| |||
ATTGATTACATCTT GT
C

GAM258 SLC19A2 3' GTCTTTCTACATAGTTA 2836 G AAACA
TAACTA TGTAGA GAGAT
||||| ||||| |||||
ATTGAT ACATCT TTCTG

GAM258 C20orf97 3' ATCTCTGTCCTCTTGATTA 1946 GT AA
TAGT AGA ACAGAGAT
||| ||||| |||||
ATTA TCT TGTCTCTA
GT CC

GAM258 CYB5-M 3' TCTGTTTTCTACCCCTAG 2150 T —
CTAG GTAGAAA ACAGA
||| ||||| |||||
GATC CATCTT TGTCT
C TT

GAM258 CYB5-M 3' TCTGTTTTCTACCCCTAG 3658 T —
CTAG GTAGAAA ACAGA
||| ||||| |||||

GATC CATCTT TGTCT
 C TT
 GAM258 FAM8A1 3' TATCCCTGGGTTACACTA 1675 AAAAA A
 TAGTGTAG CAG GATA
 ||||| |||||
 ATCACATT GTC CTAT
 GG__ C

GAM258 FLJ10853 5' TCTGCCTACACTATTTA 1804 C AAAAA
 TAA TAGTGTAG CAGA
 ||| ||||| |||||
 ATT ATCACATC GTCT
 T C__

GAM258 FLJ14327 3' ATCTCTGTCTACAAAACTAG 2111 ____ AAA
 CTAGT GTAGA CAGAGAT
 ||||| ||||| |||||
 GATCA CATCT GTCTCTA
 AAA __

GAM258 FLJ14681 5' TATCTCTGCCTCCAGGCAT 2285 A__ AA
 GTGT GAA CAGAGATA
 ||||| |||||
 TACG CTT GTCTCTAT
 GAC CC

GAM258 HNRPA3 3' ATCTCTATTCTACATTAA 1245 T AAC
 C AGTGTAGAA AGAGAT
 | ||||| |||||
 A TTACATCTT TCTCTA
 T A__

GAM258 KIAA0426 3' TATCTCTGTTTGGGAGACAGG 1532 A GTAG_
 T ACT GT AAAACAGAGATA
 ||| ||| |||||
 TGG CA TTTTGTCCTAT
 A GAGGG

GAM258 KIAA0594 3' TATCTCTAACATTACTAATTA 2707 C AAAAC
 TAA TAGTGTAG AGAGATA
 ||||| |||||
 ATT ATCATATT TCTCTAT
 A GAA_

GAM258 KIAA0635 5' ATCTCAATTACACTAG 1513 AAACA
 CTAGTGTAGA GAGAT
 ||||| |||||
 GATCACATT CTCTA
 AA__

GAM258 PDZD2 5' ATCCCTGTTTCGGGGACTA 3181 GTA_ A
 TAGT GAAAACAG GAT
 ||||| ||||| |||
 ATCA CTTTGTC CTA
 GGGG C

GAM258 PP1628 5' ATCTCTGTTCCCCATCCCCAGT 2145 A__ TA AA
 ACT GTG GA ACAGAGAT
 ||| ||| ||| |||||

TGA TAC CT TGTCTCTA
CCCC CC __
GAM258 TIP120A 3' TATCCCTGTTGCGCACACTA 1829 AGAA A
TAGTGT AACAG GATA
|||||| ||||| ||||
ATCACAC TTGTC CTAT
CGCG C
GAM258 LOC220988 3' ATCTCTATTCTACATTTA 3501 T AAC
C AGTGTAGAA AGAGAT
| ||||||| |||||
A TTACATCTT TCTCTA
T A__
GAM258 LOC221337 5' ATCTCTGTTCTAAGCAC 3555 __ A
GTGT AGA AACAGAGAT
||| || |||||
CACG TCT TTGTCCTA
AA C
GAM258 LOC257017 5' TATCTCTGTTGGCAT 3737 AG
GTGT AAAACAGAGATA
||| || |||||
TACG TTTGTCTCTAT
G__
GAM258 LOC90829 5' TATCTCTGTTGGTACCAAGT 2680 A AG
ACT GTGT AAAACAGAGATA
||| ||| |||||
TGA CATG TTTGTCTCTAT
C G__
GAM259 KIAA0268 3' ACAAAACAATGCTGAAGTTAAT 2874 T A T
AT ATATTA CT CG CATTGTTTG
||||| || |||||
TATAAT GA GT GTAACAAAACA
T A C
GAM259 KIAA1255 3' ACAAAACAACCTCTGAGATGA 2783 A TCA
TTATCT CG TTGTTTG
||| || |||||
AGTAGA GT AACAAAACA
_ CTC
GAM259 MGC5370 3' CAAAACATCAGATAATAT 2275 ACGTCAT
ATATTATCT TGTTTG
||||| |||||
TATAATAGA ACAAAAC
CT__
GAM259 UK114 3' ACAAAATGTTATAGATAATA 1255 CG CAT
T ATATTATCTA T TGTTTG
|||||| | |||||
TATAATAGAT A GTAAAACA
AT TT__
GAM260 OSBPL8 3' CTACATATGAGTATAATA 1927 CC
TATTATACTCATG TAG
||||||| |||

ATAATATGAGTAT ATC
AC
GAM260 LOC147463 3' CTATTACTATTGCAGGAATATA 3109 C A C_
A TTATA TC TGC TAGTAATAG
|||||| |||||
AATAT AG ACG ATCATTATC
A G TT

GAM260 LOC151201 5' ATTAGTAGCATGAGTATAA 3340 C G
TTACTCATGC TA TAAT
||||||| |||||
AATATGAGTACG AT ATTA
_ G

GAM261 JJAZ1 3' AGCACTGTGGTTGAGTAACATC 1621 _ TT_
GATGTTAC CAATCG TGCT
||||||| |||||
CTACAATG GTTGGT ACGA
A GTC

GAM261 SIAT1 3' AGGGGATTGGAAACATCGT 986 A G
ACGATGTT CCAATC TTT
||||||| |||||
TGCTACAA GGTTAG GGA
A G

GAM261 ATP6V0A1 3' AGGGGACACTGGTAACAT 1191 ATC G
ATGTTACCA GTTT CT
||||||| |||||
TACAATGGT CAGG GA
CA_ G

GAM261 FLJ21313 3' AGCGAATTGGTTACATCGTT 2038 T ATC
AACGATGT ACCA GTTGCT
||||||| |||||
TTGCTACA TGGT TAAGCGA
T _

GAM261 FLJ23548 3' AGCAAATTGGCTCGATAATAT 2068 _____ TC
CG CGATGTTA CCAA GTTGCT
||||||| |||||
GCTATAAT GGTT TAAACGA
AGCTC _

GAM261 LOC196510 3' GCAAAAGGCAACATTGTT 3414 A AATCG
AACGATGTT CC TTTGC
||||||| |||||
TTGTTACAA GG AAACG
C A_

GAM261 LOC200220 3' GCAAAAGGCAACATTGTT 3443 A AATCG
AACGATGTT CC TTTGC
||||||| |||||
TTGTTACAA GG AAACG
C A_

GAM261 LOC222234 3' AGCAAGATGGGTAACATC 3645 A GT
GATGTTACC ATC TTGCT
||||||| |||||

CTACAATGG TAG AACGA
G _
GAM262 CDKN1B 3' GACAAAATTTCTCATTTCCTT 1082 TGT____ C
TTCACT GTGAAAAGAA AAA TTTGTC
||||||| |||||
CACTTTCTT TTT AAACAG
TTACTCT A
GAM262 CSPG3 3' ACAAAAGGTCTTCTTCCCT 1107 T TGTAAA
AG GAAAAGAA CTTTGT
||| ||||| |||||
TC CTTTCCTT GAAACA
CTG_____
GAM262 ITSN1 3' ACAAAAGTTACATTCATACT 981 AAAAA
AGTG GAATGTAAACTTGT
||| |||||||||||
TCAT TTTACATTTGAAACA
AC_____
GAM262 MBNL 5' GACATGCAACAGTCTTCACT 1937 A AAACTT
AGTGAAAAGA TGT TGTC
||||||| |||||
TCACTTTCT ACA ACAG
G ACGT_____
GAM262 MEFV 3' GACAAAGTTTGCTCTGTCAC 719 A ATGT
GTGA AAGA AAACTTGTC
||| ||||| |||||
CACT TTCT TTTGAAACAG
G CGT_____
GAM262 NR3C1 3' GACAAAGTAATTCCCTCTCACT 716 AAA GTAA
AGTGA GAAT ACTTGTC
||| ||||| |||||
TCACT CTTA TGAAACAG
CTC A_____
GAM262 TIF1 3' ACAAAAGACATTCTTCCCACT 2564 AA AAA
AGTG AAGAATGT CTTTGT
||| ||||| |||||
TCAC TTCTTACA GAAACA
CC ____
GAM262 BZW1 3' ACAAAATGGGTATTCTTCCAT 1516 AAAC
GTGAAAAGAATGT TTTGT
||||||| |||||
TACTTTCTTATG AAACA
GGT_____
GAM262 FLJ10998 3' GACAAAGTCTCGCTCTGTCAC 1811 AA A TAA
GTGA AGA TG ACTTGTC
||| ||||| |||||
CACT TCT GC TGAAACAG
G_ C TC_____
GAM262 FLJ12409 3' GACAAAGTGTGATTTCTTCCC 2137 AA TG A_
AT GTG AAGAA TA ACTTGTC
||| ||||| |||||

TAC TTCTT GT TGAAACAG
 CC TT AG
 GAM262 FLJ32356 3' ACAAAGCTTGATGTTTCACT 2492 GAATG A
 AGTGAAAA TAA CTTTGT
 ||||| |||||
 TCACTTT GTT GAAACA
 GTA__ C
 GAM262 GRP3 3' GTTTACATCCTTCCCACT 1624 AA A
 AGTG AAG ATGTAAAC
 ||||| |||||
 TCAC TTC TACATTTG
 CC C
 GAM262 KIAA0210 3' GACACTGTTACGTCCCTCCCA 1538 AAA A_ TT
 CT AGTG AG ATGTAAAC TGTC
 ||||| ||||| |||||
 TCAC TC TGCATTTG ACAG
 CC_ CC TC
 GAM262 MGC2477 3' GACAAAAGCAAGGCCCTTTTC 2054 AAT AAAC__
 ACT AGTGAAAAG GT TTTGTC
 ||||| |||||
 TCACTTTC CG AAACAG
 CC_ GAACGA
 GAM262 MGC2742 5' ACAAAAGGGTATTCTTTCTC 2039 T T AA _
 T AG GAAAAGAA GTA CTTT GT
 ||||| ||||| |||||
 TC CTTTCTT TAT GAAA CA
 T _ GG A
 GAM262 MRF2 3' GTTCTCATTCTTTCACT 3056 TA
 AGTGAAAAGAATG AAC
 ||||| |||||
 TCACTTTCTTAC TTG
 TC
 GAM262 P2RXL1 3' GAGGGCCACACTCTTTCAC 1213 A AAA
 GTGAAAAGA TGT CTTT
 ||||| |||||
 CACTTTCT ACA GGAG
 C CCG
 GAM262 STK38L 3' GACAAAGTTAACACCTTCACT 2844 AAGAATG
 AGTGAA TAAACTTGTC
 ||||| |||||
 TCAC TT ATTGAAACAG
 CCACA__
 GAM262 LOC151579 3' ACAAATGGTATTCTTTCAT 2859 AAAC
 GTGAAAAGAATGT TTTGT
 ||||| |||||
 TAC TTTCTTATG AAACA
 GGT_
 GAM262 LOC51312 5' GACAAAATTCATTCTTTCA 1849 TAAAC
 TGAAAAGAATG TTTGTC
 ||||| |||||

	ACTTTTTTAC	AAACAG	
	TTA_		
GAM262	LOC91574 3' GACAAAGTTCTGTTCTTCAC	2751	AA TGTA
	GTGA AGAA AACTTGTC		
	CACT TCTT TTGAAACAG		
	— TGTC		
GAM263	MAB21L2 5' CACTACAAACAAACAAACC	1301	CA_ C
	GGTTTGTT TTGT GTG		
	CCAAACAA AACACAC		
	ACA T		
GAM263	LOC220672 3' CACGAATAAACAAACTAA	2565	CATTG
	TTAGGTTTGT TCGTG		
	AATTCAAACAA AGCAC		
	ATA_		
GAM264	FLRT2 3' AACTCACTCTACACTATA	1437	ACAC A C
	TATAGTGT GA TG AGTT		
	ATATCACAT CT AC TCAA		
	— C T		
GAM264	KDELR2 3' AACTTGCATTCCACTATA	1335	TAACAC —
	TATAGTG GAATGCA GTT		
	ATATCAC CTTACGT CAA		
	— T		
GAM264	SMT3H2 3' AAACTGCAATTGGTCCAC	1341	T A —
	GTG AAC CGAAT GCAGTTT		
	CAC TTG GTTTA CGTCAAA		
	C _ A		
GAM264	LOC158997 3' AAACTGCAATTGGTCCAC	3230	T A —
	GTG AAC CGAAT GCAGTTT		
	CAC TTG GTTTA CGTCAAA		
	C _ A		
GAM265	APOC4 3' GTTCATACTTCTCCAATAAATA	841	C AT T
	AA TTTAT TATTG GG GTATGAAC		
	AAATA ATAAC CT CATACTTG		
	A CT T		
GAM265	DKFZP434P0721 3' TTCATACATATAGATA	2664	TGATG
	TATCTAT GTGTATGAA		
	ATAGATA TACATACTT		
	TA_		
GAM265	FLJ14082 3' TCATACACACAGATAAA	2129	ATTGATG
	TTTATCT GTGTATGA		

		AAATAGA CACACT	
		CA_____	
GAM266	LMO7	3' AATAAACTTGCTGATGCATT 1202	TAAT T
		AAATGC G CAAGTTTATT	
		TTTACG C GTTCAAATAA	
		TAGT _	
GAM266	LMO7	3' AATAAACTTGCTGATGCATT 1643	TAAT T
		AAATGC G CAAGTTTATT	
		TTTACG C GTTCAAATAA	
		TAGT _	
GAM266	CDV-1	3' AATAAACTTGGTACGTATTT 1466	TAA GT
		AAATGC T CAAGTTTATT	
		TTTATG A GTTCAAATAA	
		C__ TG	
GAM266	KIAA1671	3' TTTGCACATCAGCATT 2726	A _
		TAAAATGCT ATGT CAAG	
		ATTTTACGA TACA GTTT	
		C C	
GAM266	SEMA5A	3' AACCTTGAAATTAGCATT 1075	G _
		AATGCTAAT TCAA GTTT	
		TTACGATTA AGTT CAAA	
		A TC	
GAM266	LOC127133	3' AATAAAATGGGAGTTAGCATT 3004	G AA
		A TAAAATGCTAAT TC GTTTATT	
		ATTTTACGATTG AG TAAATAA	
		_ GG	
GAM266	LOC143154	3' AATTGACATCACATT 3052	CTA
		TAAAATG ATGTCAAGTT	
		ATTTTAC TACAGTTAA	
		AC_	
GAM266	LOC219294	3' AATTGACATCACATT 3587	CTA
		TAAAATG ATGTCAAGTT	
		ATTTTAC TACAGTTAA	
		AC_	
GAM267	GARP	3' TGGAGTTGAGACTATGGAA 1221	_ TGGA
		TTCCGTAGTC CA TCCA	
		AAGGTATCAG GT AGGT	
		A TTG_	
GAM267	FLJ30213	3' GATCATGGACCACAGAA 2507	C A G
		TTC GT GTCCATG ATC	

AAG CA CAGGTAC TAG
A C _
GAM267 LOC196510 3' GGTCCATGAACCTAGGAA 3415 G C
TTCC TAGT CATGGATC
|||| |||||
AAGG ATCA GTACCTGG
_ A
GAM267 LOC200220 3' GGTCCATGAACCTAGGAA 3444 G C
TTCC TAGT CATGGATC
|||| |||||
AAGG ATCA GTACCTGG
_ A
GAM267 LOC220930 3' GGTCAAGACTATGGAA 3591 C AT
TTCCGTAGTC ATGG CC
||||||| |||||
AAGGTATCAG TACT GG
A _
GAM268 ZNF161 3' ACTAGCAGAACTCTT 1359 TAGT T
AAGAGTTT TG CTAGT
||||||| |||||
TTCTCAAG AC GATCA

GAM268 DKFZP566D193 3' ACTGAATAACTAAAATCTC 3353 _ C
GAG TTTAGTTGT TAGT
|||||||
CTC AAAATCAATA GTCA
T A

GAM268 LOC200574 3' GCTGACTACTAAAATCTC 3450 T T
GAGTTTTAGT GTC AGT
||||||| |||||
CTCAAAATCA CAG TCG
T _

GAM269 RAD50 3' TGTTGATAAATCCATCA 1240 A T
TGA TGGATTATCA CA
|||||||
ACT ACCTAAATAGT GT
T
GAM269 RAD50 3' TGTTGATAAATCCATCA 2420 A T
TGA TGGATTATCA CA
|||||||
ACT ACCTAAATAGT GT
T
GAM269 SMURF1 3' ATGATGATAATCCACCCA 3564 AA T
TG TGGATTAA CATCAT
|| ||||| |||||
AC ACCTAAAT GTAGTA
CC _
GAM269 TRIM9 3' ATGAATGAAAAATCCATCCA 1611 A A _
TG ATGGATT TCAT CAT
|| ||||| |||||

AC TACCTAAA AGTA GTA
C A A
GAM269 FLJ13902 3' AACGATGATGATGAACACA 2076 GA
TG TTTATCATCATCGTT
|| |||||||||
AC AAGTAGTAGTAGCAA
AC
GAM269 KIAA0650 3' AAACGATGATGATGTTAAC 3427 ATT_
GG TATCATCATCGTTT
|| |||||||||
CC GTAGTAGTAGCAA
AATT
GAM269 MGC16075 3' AAACGATGATGCAGGCTATTCA 2277 ATTTAT
TGAATGG CATCATCGTT
||||| |||||||||
ACTTATC GTAGTAGCAA
GGAC__
GAM270 PAIP2 3' ACTGAAAATAGAATTGG 1687 TATA
CCA TTTATTTTCAGT
||| |||||||||
GGT AGATAAAAGTCA
TA__
GAM270 PIN4 3' CTGAAAATATTGGGCATC 1282 A ATATATT
GATG CC TATTTTCAG
||| ||| |||||||||
CTAC GG ATAAAAGTC
_ GTT__
GAM271 HLA-G 3' TCCTTCCCCAATCACCTT 900 AAT
AAGGTGATTGG GGGAA
||||||| |||||
TTCCACTAACCC TCCT
CCT
GAM271 HRH2 5' TTCATTCCCCAACACACCTT 1984 ATT
TAAGGTG GGAATGGG
||||| |||||||
ATTCCAC CCTTACTT
AAC
GAM271 KCNJ15 3' ATTTATTTAACCAATGACCTT 916 G AATG
TAAGGT ATTGG GGATAAAAT
||||| |||||
ATTCCA TAACC TTTATTTA
G AA__
GAM271 C1orf8 5' ATCTCAGTCTCAATCAC 1161 _ A
GGTGATTG GA TGGGAT
||||| |||||||
CCACTAAC CT ACTCTA
T G
GAM271 FLJ10738 3' ATCCCACATCTGGGTCACTT 1798 _ TG A
AGGTGA T GA TGGGAT
||||| | |||||||

TTCACT G CT ACCCTA
 G GT _
 GAM271 FLJ23511 3' ATCCACAATCCAATTACC 2239 A _
 GGTGATTGGA TG GGAT
 ||||| || |||||
 CCATTAACCT AC CCTA
 A A

GAM271 GAB3 3' ATTCAGGGTTTCAATCACC 2377 _____ GG
 GGTGATTGAA TG AT
 ||||| || |||
 CCACTAACCTT AC TA
 TGGG TT

GAM271 ITPK1 3' CTCACCCCCATCACCTTG 1484 T AA
 TAAGGTGAT GG TGGG
 ||||| || |||||
 GTTCCACTA CC ACTC
 _ CC

GAM271 TRIP-Br2 3' TCCCCCCCCCATCACCTTA 1539 T AAT
 TAAGGTGAT GG GGGAA
 ||||| || |||||
 ATTCCACTA CC CCCT
 C CC_

GAM271 LOC152313 3' ATCCCCCTGATCCAATCACCT 3355 AT_____
 AGGTGATTGGA GGGAT
 ||||| || |||||
 TCCACTAACCT CCCTA
 AGTCC

GAM271 LOC256642 3' TTTAGGCCCAATACCTTA 3701 A AAT GA
 TAAGGTG TTGG GG TAAA
 ||||| ||||| || |||||
 ATTCCAT AACCC CC ATTT
 _ _ GG

GAM272 C22orf2 3' TTTTTTATTAAACGATGT 3655 A
 ACGTC TTTAATAAAAAAA
 ||||| |||||||||
 TGTAG AAATTATTTTT
 C

GAM272 LOC153277 3' ATACTTAATAAATGACGT 3369 A AAAAAA
 ACGTCATTAA TA AGTAT
 ||||| || |||||
 TGCAAGTAAAT AT TCATA
 A _____

GAM273 SH3BP4 3' CAGTGTGCAATTAGTCATTGAC 1506 G A AG
 A TG CAAT ACTAATTG ATATTG
 ||||| ||||| |||||
 AC GTTA TGATTAAC TGTGAC
 A C G_

GAM273 UFD1L 3' CAACATCTGGCTTTAGTTAC 2973 G A _____ TG A
 TGGCA TG CA TAACTAA T AGAT TTG
 ||||| ||||| | |||||

AC GT ATTGATT G TCTA AAC
G C TTC GT C
GAM273 FLJ20081 3' CAATACTCTCAATTATTAACCA 1736 CAA C -
TGG TAA TAATTGAGA TATTG
||| |||||||||
ACC ATT ATTAACTCT ATAAC
A_ _ C

GAM273 KIAA1635 3' GTCCA ACTATTTATTGCCA 2804 C A A
TGGCAATAA TA TTG GAT
||||||| |||||
ACCGTTATT AT AAC CTG
T C _

GAM273 PRO1257 5' CAATATCTCATAAGACTACTGC 1848 A ACTAAT
GCA TA TGAGATATTG
||| || |||||||
CGT AT ACTCTATAAC
C CAGAAT

GAM273 LOC153020 3' CTCAA TCAAGTATTGCCA 3177 A A
TGGCAATA CT ATTGAG
||||||| |||||
ACCGTTAT GA TAACTC
_ C

GAM274 BNC 3' TGTTTCTGTTCATATC 851 T
GATATGA AACAGGAATA
|||||||
CTATACT TTGTCTTTGT

GAM274 PROS1 5' TGTCC TTGTTATCACTTC 3407 TA A
GA TGATAACAGG ATA
|| |||||||||
CT ACTATTGTT TGT
TC C

GAM274 FLJ20147 3' ATGTTGTAATTGTCATATC 1738 CAGGA
GATATGATAA ATAACAT
||||||| |||||
CTATACTGTT TGTTGTA
AA__

GAM274 KIAA0737 3' ATGTTATTCCCCATTATCA 1562 CA_
TGATAA GGAATAACAT
|||||||
ACTATT CCTTATTGTA
ACC

GAM275 CA4 3' AGGCATGATTAAAATATGGAC 769 T TGAG
GTCCATATTTA TC GCCT
||||||| || |||
CAGGTATAAAAT AG CGGA
T TA__

GAM275 LU 3' AGGCCCCAGAATAGCTCCTGGA 1227 TATT A
C GTCCA TTATTCTG GGCCT
||||| |||||||

	CAGGT	GATAAGAC CCGGA		
	CCTC	C		
GAM275	FNBP3	5' AGGAGTTACAAAATATGGAC	3155	ATTC GG
		GTCCATATTTT	TGA CCT	
		CAGGTATAAAA	ATT GGA	
		C__ GA		
GAM275	SAP18	3' AGCCCTTCTGTAAAATATG	1258	TCT C
		CATATTTAT	GAGG CT	
		GTATAAAATG	TTCC GA	
		TC_ C		
GAM275	SCYA4	3' CTTAAAATAAAATGCAGAC	978	CA C
		GTC TATTTTATT TGAGG		
		CAG GTAAAATAA ATTTC		
		AC A		
GAM275	SLC6A14	3' CGTGATAAAATATATGGAC	1368	_ C
		GTCCATAT TTTATT TG		
		CAGGTATA AAATAG GC		
		T T		
GAM275	LOC158629	5' CCCAGGAAAACATGGAT	3393	A TA A
		GTCCAT TTT TTCTG GG		
		TAGGTA AAA AGGAC CC		
		C _ _		
GAM275	LOC163115	5' AGGCCTCAGTTTATATTGAC	3243	C TTTATT
		GTC ATAT CTGAGGCCT		
		CAG TATA GACTCCGGA		
		T TTT_		
GAM275	LOC200339	3' TCTTAGAAGAAAACATAGACG	3476	C A A
		CGTC AT TTTT TTCTGAGG		
		GCAG TA AAAA AAGATTCT		
		A C G		
GAM275	LOC200953	5' AGGCCTCAGAGGGCCCTAGGGA	3481	ATATTTTA
		C GTCC TTCTGAGGCCT		
		CAGG GAGACTCCGGA		
		GATCCCGG		
GAM275	LOC255527	5' AGGCCACATAAAATACCAAC	3718	CCA TC A
		GT TATTTTAT TG GGCCT		
		CA ATAAAATA AC CCGGA		
		ACC C_ _		
GAM275	LOC51334	3' CCTCAGAACATGATAAAAATATG	1706	C _____
		AATG CGT CATATT TTATTCTGAGG		

GTA GTATAA AGTAAGACTCC
A AAAGT
GAM275 LOC92710 3' AGGCCTCAAAACAATGAAA 2884 C__
TTTTATT TGAGGCCT
|||||| |||||
AAAGTAA ACTCCGGA
CAA
GAM276 TSN 3' TACACTGGGGAGATTGCCA 1136 GCAA C_
TGGCAAATCT TCA TGTA
|||||| |||||
ACCGTTAGA GGT ACAT
GG__ TC
GAM276 FLJ20039 3' TACAGTGATAGCAACTTCCA 1734 C TC A
TGG AAA TGC ATCACTGTA
||| ||| |||||
ACC TTT ACG TAGTGACAT
_ CA A
GAM276 KIAA1204 3' ACAGGGCCAGCTTGCCATA 2849 AT CAA A
TATGGCAA CTG TC CTGT
|||||| ||| |||||
ATACCGTT GAC GG GACA
C_ C__ _
GAM276 OR2C3 3' TACAGTGAGGCGAGATTACCCA 3023 CA _ AA
T ATGG AATCT GC TCACTGTA
|||||| |||||
TACC TTAGA CG AGTGACAT
AC G G__
GAM276 QKI 3' TACCTTGATGCAAATTGCCA 2722 C A CT
TGGCAAAT TGCA TCA GTA
|||||| ||| |||
ACCGTTA ACGT AGT CAT
A _ TC
GAM276 TIP120A 3' ACAGTAACAATTGCCA 1828 C CAATC
TGGCAAAT TG ACTGT
|||||| ||| |||||
ACCGTTA AC TGACA
_ AA__
GAM276 LOC90750 3' CAGTGGTCCAGACTTGCCA 2673 A CA
TGGCAA TCTG ATCACTG
|||||| |||||
ACCGTT AGAC TGGTGAC
C C__
GAM276 LOC92912 3' ACAGTAATTTCGCCATG 2898 TCTGC C
TATGGCAA AAT ACTGT
|||||| | |||||
GTACCGTT TTA TGACA
____ A
GAM277 BACH2 3' ATTTCTGGTAGTCAGTCCAC 1962 AA TA__
GT ATT TCACCAAGAAAT
|| ||| |||||

CA TGA AGTGGTCTTTA
CC CTG
GAM277 DUSP11 3' TTTGCTGATAAAATTGCAGT 1039 C C
AC GTAAATTATCA CAGA
|| ||||| |||||
TG CGTTAAATAGT GTTT
A C
GAM277 EPS8 3' ATTTCTGGTAATAAGAAC 1114 AAA C
GT TTTAT ACCAGAAAT
|| ||||| |||||
CG GAATA TGGTCTTTA
AA_ A
GAM277 TK1 3' TCTGGTGATGGTTCCACAGG 1005 _ AAAT_
CC GT TTATCACCAGA
|| || ||||| |||||
GG CA GGTAGTGGTCT
A CCTTT
GAM277 TRPC6 3' ATTTCTGGGAGCATTAC 1134 TTA A
GTAAAT TC CCAGAAAT
|||| || |||||
CATTAA AG GGTCTTTA
CG_ _
GAM277 KIAA0924 3' TTCTGAATAAAATTACAGT 1577 C CAC
AC GTAAATTAT CAGAA
|| ||||| |||||
TG CATTAAATA GTCTT
A A_
GAM277 KIAA1946 3' ATTTTGGGTGATGAATTACA 3247 C _
GT AC GTAAATTATCACC AGAAAT
|| ||||| |||||
TG CATTAAAGTAGTGG TTTTTA
A G
GAM277 OSBPL3 3' ATTTCTGGTGAATTAC 1635 ATTTA
GTAA TCACCAGAAAT
||| ||||| |||||
CATT AGTGGTCTTTA
A_ _
GAM277 PSKH1 3' TCTGGTGGAGGGCCATGG 2810 AAA A
CCGT TTT TCACCAGA
||| ||||| |||||
GGTA GGA GGTGGTCT
CCG _
GAM277 URB 5' ATTTCTGGGACTGAATCCAGG 3162 GTAA _ A
CC ATTTA TC CCAGAAAT
|| |||| || |||||
GG TAAGT AG GGTCTTTA
ACC_ C _
GAM278 PLS3 3' TAGAAGAAAAATGTACCTTA 1174 _ CA
TAAGGTAC TTTTTCT TA
||||| ||||| ||

ATTCCATG AAAAAGA AT
T AG
GAM278 LOC121227 3' TTATGC~~AAAAAA~~AGTATCTTA 2989 CT
TAAGGTACTTTT CATAA
||||||| |||||
ATTCTATGAAAAA GTATT
AC

GAM278 LOC145786 3' ATTATGAGAAAGGCC 3277 ACT
GGT TTTCTCATAAT
||| |||||
CCG GAAAGAGTATTA

GAM278 LOC149650 3' TTAAGAGAAAAAAGTACC 3136 _ A
GGTACTTTT CTC TAA
||||||| |||||
CCATGAAAAA GAG ATT
A A

GAM278 LOC222223 3' TTATCACATGGTCAAGTACCTT 3641 TT TCATA
G TAAGGTACTT TC ATAA
||||||| || |||||
GTTCCATGAA GG TATT
CT TACAC

GAM279 OGT 5' GGTA~~TTT~~TATAGAACAAA 1042 C C
TTTGT~~T~~TAT AA TACC
||||||| |||||
AAACAAGATA TT ATGG
T A

GAM279 TNFRSF10B 3' TTTATAGGTAGTTGTTACA 1065 TCTAT
TGT CAACTACCTATAAA
||| |||||
ACA GTTGATGGATATT
TTT_

GAM279 BA108L7.2 3' TTATAGACACTAGTAGGACAAA 2180 CAACTAC
TTTGT~~T~~TAT CTATAA
||||||| |||||
AAACAGGATG GATATT
ATCACA_

GAM279 FLJ12598 5' TTTACAGGTACCATGCAGAGAA 2086 AT_ AC_ A
CAAA TTTGT~~T~~TCT CA TACCT TAAA
||||||| || |||||
AAACAAGA GT ATGGA ATTT
GAC ACC C

GAM279 FLJ23071 3' GGT~~A~~TTTATAGAACAAA 2144 C C
TTTGT~~T~~TAT AA TACC
||||||| |||||
AAACAAGATA TT ATGG
T A

GAM279 LOC91266 5' TATAGGTAGGAACAAA 2720 ATCAACT
TTTGT~~T~~TCT ACCTATA
||||||| |||||

		AAACAAGG	TGGATAT		
		AT_____			
GAM280	CDH11	5' CCGCTGACTTGTGAATGGGA	2339	A	TG AAAA
		TCC ATT TAA TCAGCGG			
		AGG TAA GTT AGTCGCC			
		G GT C_____			
GAM280	IGF1	3' CCTGATGCAAATTGGA	761	AAAAAA	C
		TCCAATTGT ATCAG G			
		AGGTTAACG TAGTC C			
		_____ A			
GAM280	FKBP9	3' CCGCTAATTGTATTGG 3632		TTTGTA	C
		CCAA AAAAT AGCGG			
		GGTT TTTTA TCGCC			
		TTTATG A			
GAM280	FLJ23045	3' TGCTTGACAAATTGGAT	2082		AAAAAAATC
		ATCCAATTGT AGCG			
		TAGGTTAAC A TCGT			
		GT_____			
GAM280	FLJ30567	3' CCTGATTGAATTGG	2510	GTAAA	C
		CCAATT AAATCAG G			
		GGTTAAG TTTAGTC C			
		_____ A			
GAM280	FLJ30678	5' CCGCTGATTCCCTTCGTAA	2490	TA	__
		TTG AAA AATCAGCGG			
		AAT TTT TTAGTCGCC			
		GC CC			
GAM280	KIAA1676	3' CCACTGTGGAACCAAATTGGA	3590		AAAAAAAT C
		T ATCCAATTG CAG GG			
		TAGGTTAAC GTC CC			
		CAAGGGT_ A			
GAM280	KLF3	3' CCGCCAATTTCACAAAT	1693		CA
		ATTGTAAAAAT GCGG			
		TAAACATTTTTA CGCC			
		AC			
GAM280	LOC146952	5' CCACTGATTTTTCTGGA	3286	ATTTGT	C
		TCCA AAAAATCAG GG			
		AGGT TTTTAGTC CC			
		CTTTT_ A			
GAM280	LOC81569	3' CCACTGATTTTCATTGG	2616	TTGTA	C
		CCAAT AAAAATCAG GG			

GGTTA TTTTAGTC CC
C _____ A
GAM280 LOC83690 3' CCACTGATTTTTAAAT 2204 T_ C
ATTG AAAAATCAG GG
|||| ||||| ||
TAAAT TTTTAGTC CC
TT A
GAM281 ASPH 3' AAAAACGCATGGAAAATG 1896 C A
CATTT CCATGT TTTTT
|||| ||||| |||||
GTAAA GGTACG AAAAAA
A A
GAM281 ASPH 3' AAAAACGCATGGAAAATG 2252 C A
CATTT CCATGT TTTTT
|||| ||||| |||||
GTAAA GGTACG AAAAAA
A A
GAM281 CABC1 3' ATAAAAATGCTCATGGAAAGTG 1908 TATTT
A TCATTTCCCAG TTTTTAT
||||||| |||||
AGTGAAGGGTAC AAAAAATA
TCGT_
GAM281 SLC6A12 5' ATAAAAAGGGACATGAAAATGA 987 CC A
TCATTT CATGT TTTTTTTAT
|||| ||||| |||||
AGTAAA GTACA GGGAAAAATA
A_ _
GAM281 CSAD 3' AAAATACATAGGAAAAGA 1654 A C
TC TTTCC ATGTATTTT
|| ||||| |||||
AG AAAGG TACATAAAA
A A
GAM281 DICER1 3' AAAAAAAATTAAGGGGAAA 2151 ATGT
TTTCCC ATT TT TT
|||| |||||
AAAGGG TAAAAAAA
GAAT
GAM281 KIAA1025 3' AAAAAAAGGGGAAATGG 2675 ATGTA
TCATTTCCC TTTTTTTT
|||| |||||
GGTAAAGGG GAAAAAAA

GAM281 KLF12 3' AAAAAAAATACATGGGAA 1372
TTCCCATGTATTTTTTT
||||||| |||||
AAGGGTACATAAAAAAAA

GAM281 NFAT5 3' AAAAAGTGTCAAAGGAAATGA 2451 CA _
TCATTTCC TG TATTTTTT
|||| |||||

AGTAAAGG AC GTGAAAAA
 AA T
 GAM281 LOC170261 3' ATAAAAAAAGGTACAAAAAGTGA 3256 CCCA
 TCATTT TGTATTTTTTAT
 ||||| |||||||||
 AGTGAA ACATGGAAAAAATA
 AA_

GAM281 LOC222602 3' ATAAAAAAAACAAAAATGGAAAT 3583 CATGTAT
 GA TCATTTCC TTTTTTAT
 ||||| |||||||
 AGTAAAGG AAAAAAATA
 TAAAAAC

GAM281 LOC257051 3' ATAAAAAAAGGTACAAAAAGTGA 3703 CCCA
 TCATTT TGTATTTTTTAT
 ||||| |||||||||
 AGTGAA ACATGGAAAAAATA
 AA_

GAM282 FGF7 3' TATAAAGAACCCAGTTCCA 886 C C
 TGGAATTGGG TC TTATA
 ||||||| |||||
 ACCTTGACCC AG AATAT
 A A

GAM282 MTNR1B 3' TGGGGCAGAAGAGGCCAACTCC 1262 A C ATA_
 GGA TTGGGCTC TT CCA
 ||||| ||||| || III
 CCT AACCCGAG AG GGT
 C A ACGG

GAM282 SEPX1 3' TGTGAGGCCAATTCCA 1681 TC
 TGGAATTGGGC CTTATA
 ||||||| |||||
 ACCTTAACCCG GAGTGT

GAM282 PPFIA4 3' TGGCATAAGCTGAATCCC 2883 A G CCT A
 TGG ATT GGCT TAT CCA
 ||||| ||||| |||||
 ACC TAA TCGA ATA GGT
 C G __ C

GAM282 LOC145231 3' CTTGACACGAGACTAGTCCCAA 3274 _ C__ ATAC
 TTCCA TGGAATTGGG CT CTT CAAG
 ||||||| || ||| |||||
 ACCTTAACCC GA GAG GTTC
 T TCA CACA

GAM283 CAV3 3' AATGCCAGTACTGCCATTGA 2329 ATCC
 TCAAATG TGTTGGGCATT
 ||||| |||||||||
 AGTTTAC ATGACCCGTAA
 CGTC

GAM283 HOXC4 5' AATGACGTCAGAATCATTG 1509 C T GG
 CAAATGAT CTG TG CATT
 ||||||| || |||||

GTTTACTA GAC GC GTAA
A T A_

GAM283 MYCL1 3' CTTTTACACGCCATTGATA 1203 A C T_
TATCAAATG TC TGT GGG
|||||| || |||
ATAGTTAC AG ACA TTC
C C TT

GAM283 FLJ20666 5' AACAGGAGAACCACTTGATG 1762 A ____
TATCAA TGA TCCTGTT
||||| ||| |||||
GTAGTT ACT AGGACAA
C AAG

GAM283 KIAA1001 3' AATGCCTGGCAAATTACCTGA 1599 AA CC TG
TCA TGAT TGT GGCATT
||| ||| ||| |||||
AGT ATTA ACG CCGTAA
CC A_ GT

GAM283 PGRMC2 3' AACAGAAAGATCATTGATA 1286 ____
TCAAATGATC CTGTT
||||||| |||||
AGTTTACTAG GACAA
AAA

GAM283 LOC152286 3' AATGCAGGGAGACATTGATA 3354 A_ GTTGG
TATCAAATG TCCT GCATT
||||||| |||||
ATAGTTAC AGGG CGTAA
AG A_

GAM283 LOC158549 3' AATGCTTAGGAATCATTATA 3392 C _ TTG
TAT AAATGAT CCTG GGCATT
||| ||||| ||| |||||
ATA TTTACTA GGAT TCGTAA
T A _

GAM284 DKFZp761G0313 3' AAGATAAGCTATTATTAA 2731 TA
TTAATAAT CTTATCTT
||||||| |||||
AATTATTA GAATAGAA
TC

GAM285 NRCAM 3' CAGCATGCCAACAGTAATA 1170 A T__
TATTATT TTGGC CTG
||||||| |||||
ATAATGA AACCG GAC
C TAC

GAM285 C22orf23 3' TGATTAACTGGCCAATAA 2259 C__
TTATTGGCT TGATCA
||||||| |||||
AATAACCGG ATTAGT
TCA

GAM285 SARM 3' GACAGCGCCAATAACAATA 1609 A T A
TATT TTATTGGC CTG TC
||||||| |||||

ATAA AATAACCG GAC AG
 C C _
 GAM285 LOC219918 3' CGGTGGTAAAACAACAATAAT 3529 A GCTC
 A TATTATT TTG TGATCACCG
 ||||| ||| |||||
 ATAATAA AAC ATTGGTGGC
 C AAA_
 GAM286 FABP5 3' TTTATCATAAACATTTACA 828 T C
 TGTAAT TTTGT GATAAA
 ||||| |||||
 ACATTTA AAATA CTATT
 C _
 GAM286 ZHX1 3' TTGACCAAAAATTTACA 1367 —
 TGTAATTTTG TCGA
 |||||||||
 ACATTTAAAAAC AGTT
 C
 GAM286 KIAA0981 3' TTTGTGGCAAAAATTTCA 2599 T G
 TG AAAATTTTGTC ATAAA
 || |||||||||
 AC TTTTAAAAACGG TGTTT
 — —
 GAM286 KIAA1615 3' ATTTTATAAGAAAATTTAC 2829 GTCG
 GTAAAATTTT ATAAAAAT
 ||||| |||||
 CATTTAAAAG TATTTTA
 AA_
 GAM286 SGP28 3' TTTTATCTGCATAAATTTAC 1271 T C
 A TGAAAATTT TGT GATAAAAA
 ||||| |||||
 ACATTTAAA ACG CTATTTT
 T T
 GAM286 LOC201973 3' TTTTTGAGAAAAATTTGCA 3456 G T
 TGTAATTTTG TCGA AAA
 ||||| ||| |||
 ACGTTTAAAAA AGTT TTT
 G T
 GAM287 LOC146237 3' CGCACGCTCAGCAGGCATGA 3283 A CACCGA
 TCGT CC GAGCGTGTG
 ||||| |||||
 AGTA GG CTCGCACGC
 C ACGA_
 GAM287 LOC255146 5' CACACGCTCCGCCAGCGA 3679 ACCCAC A
 TCGT CG GAGCGTGTG
 ||||| |||||
 AGCG GC CTCGCACAC
 ACC__ C
 GAM288 ATBF1 5' CGTACTGGGTGCAATGAA 1336 A
 TTCGTTGTAT TAGTACG
 ||||| |||||

AAGTAACGTG GTCATGC
 G
 GAM289 FMR2 3' GCATCAGTGTCTCAACTCC 889 ATT _ C
 GGAG AAAAATA TGA GC
 |||| ||||| |||||
 CCTC TTTTGT ACT CG
 AAC G A

GAM289 SF1 3' GCGTGGGGTTTTAATCTCTG 1138 TATG_
 CGGAGATTAAAAA ACGC
 ||||||| |||||
 GTCTCTAATTT TGCG
 TGGGG

GAM289 BAL 3' GCAGTTGTTCTTAATCTCC 2201 AAT TG _
 GGAGATTAAA A AC GC
 ||||| | |||||
 CCTCTAATTT T TG CG
 CT_ GT A

GAM289 BTN3A1 3' ATATTTTAATCCCGTTA 1355 A
 TAACGG GATTAAAAATAT
 ||||| |||||||
 ATTGCC CTAATTTTATA

GAM289 PDE4DIP 3' CGTCATATTCTCAACAGTTCT 1512 AAA__
 GGAGATT AATATGACG
 ||||| |||||
 TCTTGAA TTATACTGC
 CAACTC

GAM289 LOC200251 3' GCGAGTGCCTGTAATCTCCG 3447 AAAAA GA
 CGGAGATTA TAT CGC
 ||||| | |||||
 GCCTCTAAT GTG GCG
 GTCC A_

GAM290 CDK10 3' CGGAAGCAGCCCTACAACAAAC 2354 TTGCGA
 GTTGTGTT CTGCTTCCG
 ||||| |||||
 CAACAACA GACGAAGGC
 TCCC_

GAM290 COL1A1 3' CGGAAACAGACAAGAAC 704 CGA C
 GTTGTGTTG CTG TTCCG
 ||||| | |||||
 CAACGAAC GAC AAGGC
 A_ A

GAM290 ESPN 3' AAGCTGCTGACGCAAACAACAA 2210 ACT__
 C GTTGTGTTGCG GCTT
 ||||||| | |||||
 CAACAACAACGC CGAA
 AGTCGT

GAM290 GRIA1 3' CAGTGCCAAAAACAACAAAC 779 __ G
 GTTGTGTTT GC ACTG
 ||||| | |||||

CAACAACAAA CG TGAC
 AAC _
 GAM290 PLAG1 3' AAGCAGAAAACAAAAACAAAC 942 G CGA_
 GTTGT TTTG CTGCTT
 ||||| |||||
 CAACAA AAAC GACGAA
 _ AAAA

GAM290 SORCS1 3' TCAGAAGTCCAAACAGCAAC 2345 C CT C
 GTTGTGTTTG GA GCTTC GA
 |||||||| ||||| |||
 CAACGACAAAC CT TGAAG CT

- — A
 GAM290 BM046 3' AAGCAAGACAACAAAC 1830 GCGAC
 GTTGTGTTTG TT TGCTT
 ||||| |||||
 CAACAAACAGA ACGAA

——————
 GAM290 KLF12 3' AAGCAGTTGAGTAACAGCAAC 1373 TG_
 GTTGTGTT CGACTGCTT
 ||||| |||||
 CAACGACAA GTTGACGAA
 TGA

GAM290 PSMA6 5' CGGAAGCAGTCGCTGCAAC 2880 TT
 GTTGT GCGACTGCTTCCG
 ||||| |||||||||
 CAACG CGCTGACGAAGGC
 T_

GAM290 LOC157292 5' CAGCTAAAAACAAACAAAC 3377 GC _
 GTTGTGTTTG GA CTG
 ||||| ||| |||
 CAACAAACAAA CT GAC
 AA C

GAM291 CELSR3 3' TCCCCAGTGGTGGGTG 825 T T A
 CACCAT CA CTGG GA
 ||||| ||||| |||
 GTGGGTG GT GACC CT

— — C
 GAM291 CMAR 5' CTCCACTTCCAATGGGTACAC 1195 AC ATC_
 A TG TG ACCCATTC TGGAG
 ||||| ||||| |||||
 ACAC TGGGTAAG ACCTC
 CA GTTC

GAM291 FCER2 3' TCTCCAGATGAGAGTACAC 881 _ ACCCA
 GTG AC TTCATCTGGAGA
 ||| ||| |||||||||
 CAC TG GAGTAGACCTCT
 A A_

GAM291 FCER2 3' TCTCCAGATGAGAGTACAC 882 _ ACCCA
 GTG AC TTCATCTGGAGA
 ||| ||| |||||||||

CAC TG GAGTAGACCTCT
A A
GAM291 FCER2 3' TCTCCAGATGAGAGTACAC 883 _ ACCCA
GTG AC TTCATCTGGAGA
||| |||||||||
CAC TG GAGTAGACCTCT
A A
GAM291 MEN1 3' CTCCAGAGTGGGTGTCCA 3601 T TCA
TG GACACCCAT TCTGGAG
||| ||||| |||||
AC CTGTGGGTG AGACCTC

GAM291 NCSTN 3' TTCTCCAGGCCCTCAGATGGCA 2979 ACAC CA
CA GTG CCATT TCTGGAGAA
||| ||||| |||||||
CAC GGTAG GGACCTCTT
— ACTCCC

GAM291 RBM10 3' TTCTCCACATGTTGGGTGTCCA 1235 T TT C
TG GACACCCA CAT TGGAGAA
||| ||||| |||||
AC CTGTGGGT GTA ACCTCTT
— T C

GAM291 TNFSF8 3' GGATGAATGGATGTCCC 812 T C
TG GACA CCATT CATCT
||| |||||
AC CTGT GGTAAGTAGG
C A

GAM291 YES1 3' TCCTTATGGGGATGGTGCCAC 1210 A ATCT
A TGTG CACCCATTC GGA
||| ||||| |||
ACAC GTGGGTAGG CCT
C GGTATT

GAM291 ZNF256 5' TTCTCCACAGCGGGTGTACA 1247 ATTCA
TGTGACACCC TGGAGAA
||| ||||| |||||
ACACTGTGGG ACCTCTT
CGAC

GAM291 BAT8 3' TCCCCAGCATGGATGCCACA 1325 ACAC — A
TGTG CCATT CATCTGG GA
||| ||||| |||||
ACAC GGTAGGTA GACC CT
C C C

GAM291 CPLX1 3' TCTCCGGATGGAATCACA 1318 CACCA
TGTGA TTCATCTGGAGA
||| ||||| |||||
ACACT AGGTAGGCCTCT
A

GAM291 DKFZP566K0524 3' TTCCAGTGAAACAGATGTTACA 2855 CCCA_ T
TGTGACA TTCA CTGGAG
||| ||||| |||||

		ACATTGT AAGT GACCTT	
		AGACA _	
GAM291	FLJ12891	3' TCTCCAGGGCCACA ACTGTCAC 2117	CCCATTCA
	A	TGTGACA TCTGGAGA	
		ACACTGT GGACCTCT	
		CAACACCG	
GAM291	GR6	3' CCTGAATGAATGGGTGTCAC 1396	_ T
		GTGACACCCATT CAT C GG	
		CACTGTGGGTAAGTA G CC	
		A T	
GAM291	KIAA0455	3' CAGATGAATAGTATCACA 2947	C CC
		TGTGA AC ATT CAT CTG	
		ACACT TG TAAGTAGAC	
		A A_	
GAM291	KIAA0513	3' TTCCCTGCAATGGGTGCACA 1536	A _ TCT
		TGTG CACCCATT CA GGAG	
		ACAC GTGGGTAA GT CCTT	
		_ C C_	
GAM291	KIAA1655	5' CTCTGAGAACAGAGTGTACACA 2753	CCA A T
		TGTGACAC TTC TC GGAG	
		ACACTGTG AAG AG TCTC	
		AG_ _ _	
GAM291	SCAND2	3' TTCCCCAGGCCAGATGGGTACAC 2338	A CAT A
	A	TGTGAC CCCATT CTGG GAA	
		ACACTG GGGTAG GACC CTT	
		_ ACC C	
GAM291	WDR5B	3' TCTCCACGTCCAGGTGTACACA 1878	_ CATTC C
		TGTG ACACC AT TGGAGA	
		ACAC TGTGG TG ACCTCT	
		A ACC_ C	
GAM291	LOC146330	5' TCTCCAAGAACGGGTGTCA 3088	A ATC
		TGACACCC TTC TGGAGA	
		ACTGTGGG AAG ACCTCT	
		_ A_	
GAM291	LOC148181	5' CTCCAGACCCAGATGGTGTCTC 3117	T C CA_
	A	TG GACACC ATT TCTGGAG	
		AC CTGTGG TAG AGACCTC	
		T _ ACCC	
GAM291	LOC150271	5' TCTCCAGACTGGTGACACA 3326	A CATTCA
		TGTG CACC TCTGGAGA	

	ACAC GTGG	AGACCTCT	
	A TC		
GAM291	LOC150605 5' TCTCCGGTGGAACAGTGTAC 3331		CCA_ T
	A	TGTGACAC TTCA CTGGAGA	
	ACACTGTG AGGT GCCCTCT		
	ACCA _		
GAM291	LOC153277 3' AGATAAAATGTGTGTAC 3368	C C	
	TGTGACAC CATT ATCT		
	ACACTGTG GTAA TAGA		
	T A		
GAM291	LOC154990 5' CTCCAGACCCAGATGGTGTCTC 3196	T C CA_	
	A	TG GACACC ATT TCTGGAG	
	AC CTGTGG TAG AGACCTC		
	T _ ACCC		
GAM291	LOC158014 5' TTCTCCAGATAAGAAAATCACA 3209	CACCCA C	
	TGTGA TT ATCTGGAGAA		
	ACACT AA TAGACCTCTT		
	AAAAG_ _		
GAM291	LOC158056 5' TCTCCAGGCCAGGTGCCAGC 3210	GA_ CATTCA	
	A	TGT CACC TCTGGAGA	
	ACG GTGG GGACCTCT		
	ACC ACCCC_		
GAM291	LOC202908 3' CTCCAGACCCAGATGGTGTCTC 3462	T C CA_	
	A	TG GACACC ATT TCTGGAG	
	AC CTGTGG TAG AGACCTC		
	T _ ACCC		
GAM291	LOC220143 5' CTCCCGAGATGGTGTAC 3610	CAT A T	
	TGTGACACC TC TC GGAG		
	ACACTGTGG AG AG CCTC		
	T__ _ C		
GAM291	LOC220143 5' CTCCCGAGATGGTGTAC 3611	CAT A T	
	TGTGACACC TC TC GGAG		
	ACACTGTGG AG AG CCTC		
	T__ _ C		
GAM291	LOC222057 3' CTCCAGACCCAGATGGTGTCTC 3576	T C CA_	
	A	TG GACACC ATT TCTGGAG	
	AC CTGTGG TAG AGACCTC		
	T _ ACCC		
GAM291	LOC255096 3' CTCATGGATGAGTACCA 3744	AC C CTG	
	TGTG AC CATT CAT GAG		

		ACAC TG GTAGGTA CTC		
		CA A _		
GAM291	LOC255975 5'	CTCCAGACCCAGATGGTGTCTC 3686	T	C CA_
	A	TG GACACC ATT TCTGGAG		
		AC CTGTGG TAG AGACCTC		
		T _ ACCC		
GAM291	LOC256878 3'	CTCCAGACCCAGATGGTGTCTC 3720	T	C CA_
	A	TG GACACC ATT TCTGGAG		
		AC CTGTGG TAG AGACCTC		
		T _ ACCC		
GAM291	LOC51383 3'	TTCTCCAGGCTCAGGTGCCA 1705	A	CATTCA
		TG CACC TCTGGAGAA		
		AC GTGG GGACCTCTT		
		C ACTC_		
GAM291	LOC89919 3'	TCAGAACAGATGGATGTCACA 2580	C	CA_
		TGTGACA CCATT TCTGG		
		ACACTGT GGTAG AGACT		
		A ACA		
GAM292	IL2RA 3'	TCCACCCCTATATGTAGTATAAA 739	_	CA CAA
	GA	TCTTT TAC ACA AGGGTGGA		
		AGAAA ATG TGT TCCCACCT		
		T A_ ATA		
GAM292	INPP5D 3'	CCATCGTGCCTGGTAGAAGA 3263	A	AAAG
		TCTTTTACCA CAC GGTGG		
		AGAAGATGGT GTG CTACC		
		C _		
GAM292	PLXNA1 3'	TCCACCCCTGCCCTCAGCAAGA 2941		ACCAACACA
	GA	TCTTTT AAGGGTGGA		
		AGAGAA TTCCCCACCT		
		CGACTCCCG		
GAM292	PRKCN 3'	TCTTTAAGTCGTGTTGTAAAA 1253	C	AAAGGGT
	GA	TCTTTTAC AACAC GGA		
		AGAAAATG TTGTG TCT		
		T CTGAATT		
GAM292	BHMT 3'	CCACTTTCTACCAGTAAAAGA 849		CAACACA
		TCTTTTAC AAGGGTGG		
		AGAAAATG TTTTCACC		
		ACCATC_		
GAM292	DKFZP434B044 3'	CCACCCCTTAAGGAGTTGGTA 2211		AC_ _
	AAA	TTTTACCAAC AAAGGG TGG		

	AAAATGGTTG	TTTCCC ACC	
	AGGAA	C	
GAM292	FLJ10458 3' CCCC GTGTTGGTAAGAGA	1777	AAA
	TCTTTACCAACAC	GGG	
	AGAGAATGGTTGTG	CCC	
	C_		
GAM292	FLJ20272 3' CACCTGCTGGTAAAAGA	1744	ACACAAA
	TCTTTACCA	GGGTG	
	AGAAAATGGT	TCCAC	
	CG_____		
GAM292	FLJ23598 3' TCCACCCCTGGGTAAATAAAAGA	3665	CCAAC AA
	TCTTTA AC AGGGTGG		
	AGAAAAT TG TCCCACCT		
	AA__ GG		
GAM292	KIAA1755 3' CCACCCCTTCATACTGGCCAGAG	2595	TA ACACA
	CTTT CCA AAGGGTGG		
	GAGA GGT TTCCCACC		
	CC CATA		
GAM292	MGC21621 3' CCCTAGGCTGGTTGGTAAAAGA	2508	A A__
	TCTTTACCAAC CA AGGG		
	AGAAAATGGTTG GT TCCC		
	_ CGGA		
GAM292	MGC3077 3' TCCTTGCTCTGGTAAAAGA	2048	ACACA
	TCTTTACCA AAGGG		
	AGAAAATGGT TTCCT		
	CTCG_		
GAM292	MGC4707 3' CCCTCATGTCTGGTAAAA	2055	_ CAA
	TTTTACCA ACA AGGG		
	AAAATGGT TGT TCCC		
	C AC_		
GAM292	MGC5149 3' TCCTCATTGGTAAAAGA	2940	CACAA
	TCTTTACCAA AGGG		
	AGAAAATGGTT TCCT		
	AC__		
GAM292	RAB3IL1 3' CAGGCTTTGTTGGTAAAA	1448	CA GG
	TTTTACCAACA AAG TG		
	AAAATGGTTGT TTC AC		
	_ GG		
GAM292	LOC119369 5' TCCACCCATTCTGGAAAAAA	3026	A ACACAA
	TTTT CCA AGGGTGG		

AAAAA GGT TCCCACCT
A CTTTA_

GAM292 LOC150035 5' TTGTAGTACTGGTAAAAGA 3321 — —
TCTTTACCA AC ACAA
|||||| |||||
AGAAAATGGT TG TGTT
CA A

GAM292 LOC219649 5' TCCACCCTTGTGCTTGTT 3586 —
ACCAA CACAAAGGGTGGA
|||| |||||||||
TGGTT GTGTTCCCACCT
TC

GAM292 LOC221688 5' TCCAACCACATTGGTAAAA 3617 CACAAA G
TTTTACCAA GG TGGA
|||||| |||||
AAAATGGTT CC ACCT
ACA__ A

GAM293 RLBP1 5' CAGGTACCAGGTAGCCCCA 729 A CGACA G
TG GGCTACCT TAC TG
|| ||||| |||||
AC CCGATGGA ATG AC
C CC__ G

GAM293 MGC23280 3' GCTGGTATCGAGGTGCCCA 2493 A T CA GT
TG GGC ACCTCGA TAC GT
|| |||| ||||| |||||
AC CCG TGGAGCT ATG CG
C _ __ GT

GAM293 LOC113523 3' TATGCCGAAATAGCTTCA 2966 CC A
TGAGGCTA TCG CATA
|||||| |||||
ACTTCGAT AGC GTAT
AA C

GAM293 LOC150157 3' CACACGTATGCCATGGCC 3325 CCTCGA
GGCTA CATACTGTG
|||| |||||||||
CCGGT GTATGCACAC
ACC__

GAM293 LOC196890 3' CACACGTATGCCATGGCC 3468 CCTCGA
GGCTA CATACTGTG
|||| |||||||||
CCGGT GTATGCACAC
ACC__

GAM294 ARHGAP6 3' TGTATTCTGTAACAGATTA 807 CA
TAA TGTTACAGAAATATA
||| |||||||||
ATT ACAATGTCTTATGT
AG

GAM294 ARHGAP6 3' TGTATTCTGTAACAGATTA 1450 CA
TAA TGTTACAGAAATATA
||| |||||||||

ATT ACAATGTCTTATGT
 AG
 GAM294 ATP11B 3' TAATTTGAATCTAACATGTTA 3158 A ATA
 TAACATGTT CAGA TAAATT
 ||||| |||||
 ATTGTACAA GTCT GTTTAAT
 _ AA_

GAM294 BNC 3' TAATTCTTGTTCTGTAACATG 850 TA
 CATGTTACAGAATA AATT
 ||||| |||||
 GTACAATGTCTTGT TTAAT
 TC

GAM294 CREBL2 3' TAATTTATATTCTTCCATGT 817 TTAC
 ACATG AGAATATAAATT
 ||||| |||||
 TGTAC TCTTATATTAAAT
 CTT_

GAM294 GCNT1 3' TAATTTATATTCTGCTCTAATA 830 —
 TGTAA CAGAATATAAATT
 ||||| |||||
 ATAAT GTCTTATATTAAAT
 CTC

GAM294 MBNL 3' TATACTGTATAACATGTTA 1938 — A
 TAACATGT TACAG ATA
 ||||| |||||
 ATTGTACA ATGTC TAT
 AT A

GAM294 AFAP 3' TAATTTATATCTGTACATATTA 1952 C T A
 TAA ATGT ACAGA TATAAATT
 ||||| |||||
 ATT TACA TGTCT ATATTAAAT
 A — —

GAM294 LOC148195 3' TAATTTATCTGTTAACATGTT 3299 — ATA
 AACATGTTA CAGA TAAATT
 ||||| |||||
 TTGTACAAT GTCT ATTAAAT
 T — —

GAM295 ATP6V1A1 3' GAGGTTTCTCAGAACATATCT 847 CGCT
 AGATATTCTGAG AACCTT
 ||||| |||||
 TCTATAAGACTC TTGGAG
 T — —

GAM295 DAP 3' AGGTTAGGAGAAAACCTCA 2954 ATA GAGCG
 TGAG TTCT CTAACCT
 ||||| |||||
 ACTC AAGA GATTGGA
 CAA G — —

GAM295 LIFR 3' AAGTATAGTGACTCAGAACATCCT 919 AT — AC
 CA TGAG ATTCTGAG CGCTA CTT
 ||||| ||||| |||||

ACTC TAAGACTC GTGAT GAA
C_ A AT
GAM295 RECK 3' AGCTTCAGAATATGTCA 1941 G C
TGA ATATTCTGAG GCT
||| ||||| |||
ACT TATAAGACTT CGA
G T
GAM295 SLC13A3 3' AAGGCCAGGGTAAAATGTCTCA 2570 CTGA G AA
TGAGATATT GC CT CCTT
|||||| || || |||
ACTCTGTAA TG GA GGAA
AA_ G CC
GAM295 TEM8 3' GGGGCCAGAATATCTCA 2236 A G
TGAGATATTCTG GC CT
|||||| || |||
ACTCTATAAGAC CG GG
_ G
GAM295 DKFZp547I224 3' GTTAGCAAGGATATCCA 1903 A GAGC
TG GATATTCT GCTAAC
||| ||||| |||||
AC CTATAGGA CGATTG
_ A_____
GAM295 OLFM3 3' AGCATCATCCTCAAATATCTCA 3232 C C_____
TGAGATATT TGAG GCT
|||||| ||||| |||
ACTCTATAA ACTC CGA
_ CTACTA
GAM295 TSARG1 3' AGATGTTCAGAATATCTCA 2470 _
TGAGATATTCTGAGCG CT
||||||| |||
ACTCTATAAGACTTGT GA
A
GAM295 LOC114987 3' AGGCCAAAAATATCTCA 2517 C_ A G
TGAGATATT TG GC CT
|||||| || |||
ACTCTATAA AC CG GA
AA _ _
GAM295 LOC152445 5' AGGCTCCGCAAATATCTCA 3360 CT_ G
TGAGATATT GAGC CT
|||||| |||||
ACTCTATAA CTCG GA
ACGC _
GAM296 FLJ20139 5' ACCATATCAATCCATATA 1737 CAA
TGTA ATTGATATGGT
||| |||||
ATAT TAACTATACCA
ACC
GAM296 LOC91796 3' ACGTTTACAATCAATTGTAC 2785 A GTCGT
A TGACAAATTGAT TG CGT
||||||| || |

		ACATGTTAACTA AC GCA		
		_ ATTTT		
GAM297	CMAR	3' CCCCATGCCCTACTCCATG 1194	A AGA	
		CATGGAGTAG TGAT GGGG		
		GTACCTCATC GCTA CCCC		
		C _		
GAM297	CRHR1	3' TTCCCCCTCACTTAACCACCCCA 1105	A AGA TA	
	T	ATGG GT TGA GAGGGGAA		
		TACC CA ATT CTCCCCTT		
		C CCA CA		
GAM297	DTR	3' TTCCCCCTCCACCAAACCCCA 874	A AGA ATA	
		TGG GT TG GAGGGGAA		
		ACC CA AC CTCCCCTT		
		C A_ CAC		
GAM297	FGF5	3' TCCCCTCTCCACCCACCCCA 1117	A AGA AT	
		TGG GT TG AGAGGGGA		
		ACC CA AC TCTCCCT		
		C CCC C_		
GAM297	FGF5	3' TCCCCTCTCCACCCACCCCA 2315	A AGA AT	
		TGG GT TG AGAGGGGA		
		ACC CA AC TCTCCCT		
		C CCC C_		
GAM297	GAA	3' CCCCTCCATCTGTTCC 713	ATA	
		GGAGTAGATG GAGGGG		
		CCTTGCTCAC CTCCCC		
GAM297	GNL1	3' TCCCCTCTGCCACCCCA 3550	A AGAT A	
		TGG GT G TAGAGGGGA		
		ACC CA C GTCTCCCT		
		C _ C		
GAM297	GNL1	3' TCCCCTCTGCCACCCCA 3748	A AGAT A	
		TGG GT G TAGAGGGGA		
		ACC CA C GTCTCCCT		
		C _ C		
GAM297	KCNA6	3' TCCCCTCCCTACCTCATG 915	GA ATGATA	
		CATG GTAG GAGGGGAA		
		GTAC CATC CTCCCC		
		TC C_		
GAM297	LDHB	5' CCCCATACACCATCTATTCCAT 918	ATAGA_	
		ATGGAGTAGATG GGGG		

TACCTTATCTAC CCCC
 CACATA
 GAM297 LTBP2 3' TTCCCCCTCCACTCAGAAACCCC 740 A AGA TA_
 GG GT TGA GAGGGGAA
 ||||| |||||
 CC CA ACT CTCCCCTT
 C AAG CAC
 GAM297 MARK1 5' CCCCTCCTCTTACTCCG 1856 AT TA
 TGGAGTAG GA GAGGGG
 ||||| |||||
 GCCTCATT CT CTCCCC
 — C_—
 GAM297 PLAT 3' TTCCCCCTTCCTTCACTCCCTG 2306 T AGAT TA
 CA GGAGT GA GAGGGGAA
 ||||| |||||
 GT CCTCA CT TTCCCCTT
 C CCC_—
 GAM297 PLAT 3' TTCCCCCTTCCTTCACTCCCTG 788 T AGAT TA
 CA GGAGT GA GAGGGGAA
 ||||| |||||
 GT CCTCA CT TTCCCCTT
 C CCC_—
 GAM297 PTGIR 3' CCCCTCTACCAAGCCACTCCA 791 AGA_ A
 TGGAGT TG TAGAGGGG
 ||||| |||||
 ACCTCA AC ATCTCCCC
 CCGA C
 GAM297 PXN 3' CCCCTCTTCACTTCAT 965 AGAT T
 ATGGAGT GA AGAGGGG
 ||||| |||||
 TACTTCA CT TCTCCCC
 — T
 GAM297 RNH 5' TCCCCTCTACCAAGGGTTCC 2536 AGA A
 GGAGT TG TAGAGGGGA
 ||||| |||||
 CCTTG AC ATCTCCCT
 GGA C
 GAM297 SCN4A 3' TCCCTTCTCATCTCCCCA 730 AGT TA
 TGG AGATGA GAGGGGAA
 ||||| |||||
 ACC TCTACT CTTCCCT
 CC_—
 GAM297 SH3GL1 3' TCCCTTCCCCACTCCATG 982 AGATGATA
 CATGGAGT GAGGGGAA
 ||||| |||||
 GTACCTCA CTTCCCT
 CCC_—
 GAM297 ZNF261 3' TTCCCCCTCTATTGTTCCCC 1184 AGTA TG
 GG GA ATAGAGGGGAA
 ||||| |||||

CC TT TATCTCCCCTT
CC__ GT
GAM297 AKAP3 3' CCCCTCTATATCCTC 1300 TA A
GAG GATG TAGAGGGG
||| |||||
CTC CTAT ATCTCCCC

— —
GAM297 C3F 3' TCCCCTCTGATTCCCCATG 1246 AGTA TGA
CATGG GA TAGAGGGGA
|||| || |||||
GTACC CT GTCTCCCCT
CC__ TA_

GAM297 CL24751 5' CTCCTTCATCTACTC 2698 TAG
GGAGTAGATGA AGGGG
||||||| |||||
CCTCATCTACT TCCTC

— —
GAM297 DIS3 3' TTCCCTAAGTTCTATTCCAT 1597 TGATAG
ATGGAGTAGA AGGGGAA
||||||| |||||
TACCTTATCT TCCCCTT
TGAA_

GAM297 FLJ10700 3' CCTTCATCCACTCCATG 1794 A TAG
CATGGAGT GATGA AGG
||||||| |||||
GTACCTCA CTACT TCC
C __

GAM297 FLJ13102 3' TCCCCTCTACCAATCCCTG 2104 T GTAGA A
CA GGA TG TAGAGGGGA
|| ||| || |||||
GT CCT AC ATCTCCCCT
C A__ C

GAM297 FLJ32978 3' TCCCATTGGTCACCTTACTCCA 2488 A_ AGAG
TGGAGTAG TGAT GGGAA
||||||| |||||
ACCTCATT ACTG CCCT
CC GTTA

GAM297 HSPB7 3' TTCCCCTCTACCAGCCTCCA 1499 TAGA A
TGGAG TG TAGAGGGGAA
||||||| |||||
ACCTC AC ATCTCCCCTT
CG__ C

GAM297 HTCD37 3' TTCCCCTTTCCATACCCCA 2796 A AT T
TGG GTAG GA AGAGGGGAA
||| ||||| |||||
ACC CATC CT TTTCCCCTT
C __ T

GAM297 KIAA0280 3' TTCCCCTCCATCTGATCC 3537 G ATA
GGA TAGATG GAGGGGAA
||| ||||| |||||

CCT GTCTAC CTCCCCCTT
A _____
GAM297 KIAA0450 5' TCCCCTCTACTACCCCC 1511 A ATGA
GG GTAG TAGAGGGGA
|| |||| |||||||
CC CATC ATCTCCCCT
C _____
GAM297 KIAA0731 3' CCCCTCCTCTCTCCATG 2767 T TGATA
CATGGAG AGA GAGGGG
|||||| |||||
GTACCTC TCT CTCCCC
C _____
GAM297 KIAA1462 3' TCCCCTCTGTGTCTCCATG 3523 TAGATG
CATGGAG ATAGAGGGGA
|||||| |||||||
GTACCTC TGTCTCCCCT
TG _____
GAM297 LIMK2 3' CCCCTTTCTACTCCA 1710 TGATA
TGGAGTAGA GAGGGG
||||||| |||||
ACCTCATCT TTCCCC
GAM297 LIMK2 3' CCCCTTTCTACTCCA 1225 TGATA
TGGAGTAGA GAGGGG
||||||| |||||
ACCTCATCT TTCCCC
GAM297 MGC2541 5' TCCCCTTCAGCTCCATG 2385 _ ATGATA
CATGGAGT AG GAGGGGA
||||||| |||||
GTACCTCG TC TTCCCC
A C _____
GAM297 MGC3101 3' CCCTTCTTCTACTCCA 2046 TGAT
TGGAGTAGA AGAGGGG
||||||| |||||
ACCTCATCT TCTTCCC
GAM297 NCOA2 3' TTCCCCCTCTCATTCATCCCCAT 1307 AGTA T
ATGG GATGA AGAGGGGAA
||| ||||| |||||||
TACC TTACT TCTCCCCTT
CC_ C
GAM297 RBM14 3' TTCCCCCTCTACCCCTGCCCTCC 1289 _ ATGA
GGAG TAG TAGAGGGGAA
||| ||| |||||||
CCTC GTC ATCTCCCCTT
C CC_
GAM297 SCYA5 3' TTCCCCCTCACTATCCTACCCCCA 979 A AT _
TGG GTAG GATA GAGGGGAA
||| ||||| |||||||

ACC CATC CTAT CTCCCCCTT
C _ CA
GAM297 U5-116KD 3' CCCCTTGCTCCCACCTCCATG 1095 AGAT TA
CATGGAGT GA GAGGGG
|||||| || |||||
GTACCTCA CT TTCCCC
CC_ CG

GAM297 WSB1 3' TCCCCCACCTACTCCA 2429 A ATAGA
TGGAGTAG TG GGGGA
|||||| || |||||
ACCTCATC AC CCCCT
C _____

GAM297 LOC144501 3' TCCCCTTCCTCCCTCCATG 3268 TAGAT TA
CATGGAG GA GAGGGGA
|||||| || |||||
GTACCTC CT TTCCCC
C_ CC

GAM297 LOC146940 3' TCCCTTCCCCACTCCATG 3101 AGATGATA
CATGGAGT GAGGGGA
|||||| || |||||
GTACCTCA CTTCCCT
CCC_____

GAM297 LOC197003 3' TCCCCTCTCCACTCC 3418 A T TAG
GGAGT GA GA AGGGGA
|||||| || |||||
CCTCA CT CT TCCCCT
C _ _____

GAM297 LOC200953 5' CCCCTCCACCTGCTCCA 3482 A ATA
TGGAGTAG TG GAGGGG
|||||| || |||||
ACCTCGTC AC CTCCCC
C _____

GAM297 LOC257541 3' TCCCCTCTGCCACCCCA 3746 A AGATA
TGG GT G TAGAGGGGA
||| || | |||||
ACC CA C GTCTCCCC
C _ C

GAM298 G2 5' TGGGACAGCCGACTT 2756 ATCTTA
AAGTTGGCTGTC CCA
|||||| |||||
TTCAGCCGACAG GGT

GAM298 REM 5' ATTGGCTGACAGCCAATT 1462 TCTTA
AGTTGGCTGTCA CCAAT
|||||||| |||||
TTAACCGACAGT GGTAA
C _____

GAM298 LOC90321 3' GTAAGATGACAGGGCTGACTT 2631 TG ____
AAGT GCT GTCATCTTAC
||| || |||||

TTCA CGG CAGTAGAATG
GT GA
GAM298 LOC91650 5' ATTGGTAAACAACCAAT 2766 C CATC
GTTGG TGT TTACCAAT
|||||| |||||||
TAACC ACA AATGGTTA
A _____

GAM299 CD28 3' ATAATTAATGGTACTCCTATAA 1274 ATAC
TT AATTATAG GCTATTAATTAT
|||||| |||||||||
TTAATATC TGGTAATTAATA
CTCA

GAM299 ABCA6 3' ATAATTAATAGTATGTTA 2374 CG
TAGATA CTATTAATTAT
|||||| |||||||
ATTTGT GATAATTAATA
AT

GAM299 FLJ21302 3' GTAGCACAATCTATAATT 2021 AC_
AATTATAGAT GCTAT
||||||| |||||
TTAATATCTA CGATG
ACA

GAM299 SLC7A11 3' TAATAGTCCCATATCTGTAAT 1492 C_____
ATTATAGATA GCTATTA
||||||| |||||||
TAATGTCTAT TGATAAT
ACCC

GAM300 AP2B1 3' AGTGTTACACTGTTGA 814 TCC
TTAGATA GTAACACT
||||||| |||||||
AGTTTGT CATTGTGA
CA_

GAM300 GOT1 3' TGGTAAGAAGGGATATTAA 897 GTAACAC
TTAGATATCC TACCA
||||||| |||||
AATTTATAGG ATGGT
AAGA_

GAM300 ZNF14 3' TGGTAGTGCATGCCTCTAA 1934 TATC AA
TTAGA CGT CACTACCA
||||| |||||
AATCT GTA GTGATGGT
CC_ C_

GAM300 FLJ11827 3' TAGTGTTAGAATATCTAA 2136 CCGT
TTAGATAT AACACTA
||||||| |||||||
AATCTATA TTGTGAT
AGAT

GAM300 HEYL 3' TGGGTTGTTGCGGACATC 1507 A CTA
GAT TCCGTAACA CCA
||| ||||||| |||

CTA AGGCGTTGT GGT
 C TG_
 GAM300 LOC158722 5' TGGTAGTGCAGCTCATCTGA 3226 ATCC AA
 TTAGAT GT CACTACCA
 ||||| |||||||||
 AGTCTA CG GTGATGGT
 CT_ AC

GAM301 ADAMTS5 3' AAAATTCTAGTAATCCTGCCA 1350 A GCTC
 TGGTA GATTACTG GTTTT
 ||||| ||||| |||||
 ACCGT CTAATGAT TAAAAA
 C ACT_

GAM301 SLC38A4 3' GACGTTTACCAAGTAATATCACC 1774 AAG CT_
 A TGGT ATTACTGG CGTT
 ||||| ||||| |||||
 ACCA TAATGACC GCAG
 CTA ATTT

GAM302 SLC19A2 3' ATGGAATGTGGTACAAATTGTT 2835 G A AAAT
 AA AATTT TAT CATTCCAT
 ||||| ||||| |||||
 TT TTAAA ATG GTAAGGTA
 G C GT_

GAM302 COLEC12 3' ATGGACTGAATCACATAGATTTC 2165 ATAAA T
 T AGAATTAT TCA TCCAT
 ||||| ||||| |||||
 TCTTAGATA AGT AGGTA
 CACTA C

GAM302 COLEC12 3' ATGGACTGAATCACATAGATTTC 2395 ATAAA T
 T AGAATTAT TCA TCCAT
 ||||| ||||| |||||
 TCTTAGATA AGT AGGTA
 CACTA C

GAM302 SH3BGRL 3' ATGGAATGATATATCCAAGTTC 2615 AT A
 GAATTT ATA ATCATTCAT
 ||||| ||||| |||||
 CTTGAA TAT TAGTAAGGTA
 CC A

GAM302 LOC150848 5' GAATGATTGGAGTTCTT 3334 ATA
 AAGAATT TAAATCATTTC
 ||||| |||||
 TTCTTGAG GTTTAGTAAG

GAM302 LOC219846 3' ATGAAATGATTTTATAATTCT 3504 T T C
 AGAATT ATA AAATCATT CAT
 ||||| ||||| |||||
 TCTTAA TAT TTTAGTAA GTA
 - T A

GAM303 DRD1 3' ATTAACCTCCGTTCCAAATACA 774 GCTCCT
 TGTAT AGCGGAGTTAAT
 ||||| ||||| |||||

ACATA TTGCCTCAATT
 AACCT_

GAM303 KIAA0182 3' AAGTCCTAGGAGCACACA 2931 A GC G
 TGT TGCTCCTA GGA TT
 ||||| ||||| |||||
 ACA ACGAGGAT CCT AA
 C ___ G

GAM303 SSH2 3' AGCCCCAGGAGCATACA 2626 AGC A
 TGTATGCTCCT GG GTT
 ||||| ||||| |||||
 ACATACGAGGA CC CGA
 C____

GAM303 LOC90918 5' ATTAAATCCAGGAACATATA 2687 C AGC G
 TGTATG TCCT GGA TTAAT
 ||||| ||||| |||||
 ATATAC AGGA CCT AATTA
 A ___ A

GAM304 PAFAH1B2 3' ACATTCAATTGAATTATTATCAC 937 A -
 TG CAGT ATAATAATTCA GT AATGT
 ||||| ||||| |||||
 GTCA TATTATTAAGTTA TTACA
 C C

GAM305 GL004 3' CGACAGAATAAGGTACAAATGT 2736 A G C_ A
 AG CTACATTT TAT TT TCT TCG
 ||||| ||||| |||||
 GATGTAAA ATG AA AGA AGC
 C G TA C

GAM305 KIAA1336 3' CGATTTCATATAAATGTATGA 2942 - TTCTCT
 TC TACATTTATATG ATCG
 ||||| |||||
 AG ATGTAAATATAC TAGC
 T TTT___

GAM305 LOC147711 3' GAGAAAAACCATAATAATG 3112 —
 CATTATATG TTCTC
 ||||| |||||
 GTAAATATAC AAGAG
 CAAA

GAM306 B3GALT3 3' TACTACACTGCCAGTTGTA 1058 ATA
 TACAA GCAGTGTAGTG
 ||||| |||||
 ATGTT CGTCACATCAT
 GAC

GAM306 CSNK1G3 3' TACTGATGGTACTGTTATT 1106 TA G
 AATAGCAGTG GT CAGTA
 ||||| |||||
 TTATTGTCAT TA GTCAT
 GG _

GAM306 DSC3 3' TACTGCACTACCAAATTCAATT 2061 AGCAGT_
 G CAAAT GTAGTGCAGTA
 ||||| ||||| |||||

		GTTTA	CATCACGTCAT	
		CTTAAAC		
GAM306	DSC3	3' TACTGCACTACCAAATTCTATT 872	AGCAGT_	
	G	CAAAT	GTAGTCAGTA	
		GTTTA	CATCACGTCAT	
		CTTAAAC		
GAM306	STK24	3' CAGAACACTCCTATTGTA 1037	C AG	
		TACAAATAG AGTGT TG		
		ATGTTTATC TCACA AC		
		C AG		
GAM306	SUV39H2	3' TACTCACTGTACTTGTA 2080	ATA T	
		TACAA GCAGTG AGTG		
		ATGTT TGTCAC TCAT		
		CA_ _		
GAM306	TAC1	3' TATTACACTGTATTGTA 1456	G	
		TACAAATA CAGTGTAGTG		
		ATGTTTAT GTCACATTAT		
GAM306	TAC1	3' TATTACACTGT ⁻ ATTGTA 1457	G	
		TACAAATA CAGTGTAGTG		
		ATGTTTAT GTCACATTAT		
GAM306	TAC1	3' TATTACACTGT ⁻ ATTGTA 1458	G	
		TACAAATA CAGTGTAGTG		
		ATGTTTAT GTCACATTAT		
GAM306	TAC1	3' TATTACACTGT ⁻ ATTGTA 996	G	
		TACAAATA CAGTGTAGTG		
		ATGTTTAT GTCACATTAT		
GAM306	UBQLN1	3' TACTGCATGCATCACTTCTG 1452	C TA_	
		TAG AGTG GTGCAGTA		
		GTC TCAC TACGTCAT		
		T TACG		
GAM306	ZNF207	3' GCTTACATTGCTATTGTA 1023	T	
		TACAAATAGCAGTGTAG GC		
		ATGTTTATCGTTACATT CG		
GAM306	AKAP12	3' TACTACATGCTTTTGTA 1185	T G	
		TACAAA AGCA TGTAGTG		

ATGTTT TCGT ACATCAT
T _
GAM306 AKAP12 3' TACTACATGCTTTTGTA 2481 T G
TACAAA AGCA TGTAGTG
||||| |||||
ATGTTT TCGT ACATCAT
T _
GAM306 FLJ10352 3' CACTACAATTATGCTTTGTA 2232 T G__
TACAAA AGCA TGTAGTG
||||| |||||
ATGTTT TCGT ACATCAC
_ ATTA
GAM306 FLJ11222 3' CACTACAGAGCACTGTTG 1819 __ AG
CAAATA GC TGTAGTG
||||| || |||||
GTTTGT CG ACATCAC
CA AG
GAM306 FLJ14641 3' TACTGCCTGTGCTGCTA 2284 TG T
TAGCAG TAG GCAGTA
||||| |||||
ATCGTC GTC CGTCAT
GT _
GAM306 FLJ23537 3' ACTGCAGTACTGTTGTA 2105 GCAGT G
TACAAATA GTA TGCAGT
||||| |||||
ATGTTTGT CAT ACGTCA
____ G
GAM306 KIAA1161 5' ACTGCACTAACCCATTG TG 3212 AGCA G
TACAAAT GT TAGTGCAGT
||||| || |||||
GTGTTA CA ATCACGTCA
CC__
GAM306 MGC10646 3' CACTACGCTGCCATTGTA 2270 C A
A AAAT GCAGTGTAGTG
| |||||
A TTTA CGTCGCATCAC
T C
GAM306 MLL5 3' TACAGTCTCACACTGCTATCGT 3644 AA _ T A
A TAC ATAGCAGTGT AG GC GTA
||| ||||| |||||
ATG TATCGTCACA TC TG CAT
C_ C _ A
GAM306 ZAK 3' ACTGCACATATTGCTTTG 2426 T A
CAAA AGCAGTGT GTGCAGT
||| ||||| |||||
GTTT TCGTTATA CACGTCA
_ _
GAM306 ZNF387 3' ACTGTTATTACTGTTACCTG 1520 AA TAGT
CA TAGCAGTG GCAGT
||| ||||| |||||

GT ATTGTCAT TGTCA
 CC TAT_
 GAM306 LOC126661 3' ACTGCAGCCTCCGCTTCTGT 3000 C_ T __
 ATAG AGTG AG TGCAGT
 ||||| |||||
 TGTC TCGC TC ACGTCA
 CT C CG
 GAM306 LOC139770 3' CACTACCGCTGTATCTGTA 3022 A G _
 TACA ATA CAGTG TAGTG
 ||||| |||||
 ATGT TAT GTCGC ATCAC
 C _ C
 GAM306 LOC150577 3' ACCGCATTGCTGCTATCTGTG 3329 A T A
 TACA ATAGCAGTG AGTGC GT
 ||||| |||||
 GTGT TATCGTCGT TTACG CA
 C _ C
 GAM306 LOC89919 5' TACTACACACATTGCTATTG 2579 A C
 CAAATAGCAGTGT GTG AGTA
 ||||||| |||||
 GTTTATCGTTACA CAC TCAT
 - A
 GAM306 LOC92573 5' ACCGCAGGCTATGCTTTGTA 2869 T GT AG A
 TACAAA AGCA GT TGC GT
 ||||| |||||
 ATGTTT TCGT CG ACG CA
 C AT G_ C
 GAM307 NTRK2 3' GATGGCTTCCGTGAGACA 1275 C GA
 TGTC CACGGAAGT ATC
 ||||| |||||
 ACAG GTGCCTTCG TAG
 A G_
 GAM307 ING3 3' AGGATTACATAGACAAT 1879 CCACGGAA
 ATTGTC GTGAATCCT
 ||||| |||||
 TAACAG CATTAGGA
 ATA_____
 GAM307 KIAA1164 5' AAGGAACGCTCCGGGACAAT 2861 AC AA
 ATTGTCCC GGAAGTG TCCTT
 ||||| |||||
 TAACAGGG CCTTCGC AGGAA
 C_ A_
 GAM307 LOC150577 5' AAGGAATTATTCACGAGACA 3328 CCAC A
 A TTGTC GGAAGTGA TCCTT
 ||||| |||||
 AACAG CCTTTATT AGGAA
 AGCA A
 GAM307 LOC199936 3' AAGGGGCCCATGGGACAA 3474 C AA GAA
 TTGTCCCA GG GT TCCTT
 ||||| |||||

AACAGGGT CC CG GGGAA
 A CC __
 GAM307 LOC257235 3' AAGGATTCAGTATTATGGGA 3727 C AG_ _
 CAA TTGTCCCCA GGA TGAA TCCTT
 ||||| ||| |||||
 AACAGGGT CTT ACTT AGGAA
 A ATG T

GAM308 COL19A1 3' ATCCACATGGTACAAGCCTTC 863 ACCA G _
 TCA TGAGAAAG GTA TAT TGGAT
 ||||| ||| |||||
 ACTCTTC CAT GTA ACCTA
 CGAA G C

GAM308 EFEMP1 3' ATCCACTAAACTGGTCTTCTTC 1089 GA AG T
 A TGA AAGACCAGT TA TGGAT
 ||| |||||| ||| |||||
 ACT TTCTGGTCA AT ACCTA
 TC A_ C

GAM308 EFEMP1 3' ATCCACTAAACTGGTCTTCTTC 1864 GA AG T
 A TGA AAGACCAGT TA TGGAT
 ||| |||||| ||| |||||
 ACT TTCTGGTCA AT ACCTA
 TC A_ C

GAM308 FACL2 3' ATCCCTGCTACTGTCCCTTCTC 1943 A_ C TT
 A TGAGAA GAC AGTAGTA GGAT
 ||||| ||| ||||| |||||
 ACTCTT CTG TCATCGT CCTA
 CC _ C_

GAM308 HDGF 3' CCTCTTCCTACTGGTCTCT 1120 A TATT_
 AGA AGACCAGTAG GG
 ||| |||||| |||
 TCT TCTGGTCATC CC
 C CTTCT

GAM308 HGF 3' ATCCAACTAGTTGCTGGTCTCT 3642 GAA --
 ATCA TGA AGACCAGTAG TA TTGGAT
 ||| |||||| ||| |||||
 ACT TCTGGTCGTT AT AACCTA
 ATC G C

GAM308 NFE2L1 3' CCAATATATCTTCTCA 999 A CCAGTA
 TGAGAA GA GTATTGG
 ||||| ||| |||||
 ACTCTT CT TATAACC
 _ A_

GAM308 NLGN1 5' CCATTATACAGTCTTCTCA 1592 CA GTAT
 TGAGAAAGAC GTA TGG
 ||||||| ||| |||
 ACTCTTCTG CAT ACC
 A_ ATT_

GAM308 SLC21A2 3' ACTAACCTGGTCTTCCCA 1232 A __
 TG GAAAGACCAG TAGT
 ||||||| |||||

AC CTTTCTGGTC ATCA
C CCA
GAM308 FHR5 3' ATCCAATACTAAATACCCCTTA 2166 AAAGACCAG
TGAG TAGTATTGGAT
|||||||
ATTC ATCATAACCTA
CCCATAA_

GAM308 FLJ13710 3' CTGGTGCTACTGGTCTTCT 2091 TG
AGAAAGACCAGTAGTAT G
||||||| |
TCTTCTGGTCATCGTG C
GT

GAM308 KIAA1155 3' ATCACGGGCTAATAATCTTCT 2628 CCAG ATTG
CA TGAGAAAGA TAGT GAT
||||||| |||||
ACTCTTCT ATCG CTA
AATA GGCA

GAM308 SEF 3' TCTCTCACTACCTTCTCA 2860 ACCA ATT
TGAGAAAG GTAGT GGA
||||||| |||||
ACTCTTTC CATCA TCT
_____ CTC

GAM308 TREX1 5' ATCCAGTAATCCAGTCTCCCTC 2337 AA CAGTAG
A TGAG AGAC TATTGGAT
||||||| |||||
ACTC TCTG ATGACCTA
CC ACCTA_

GAM308 TRIM6 3' ATCCAATACATATTTTCTC 2366 CCA A
GAGAAAGA GT GTATTGGAT
||||||| |||||||
CTCTTTT TA CATAACCTA
A_ _

GAM308 VEST1 3' ATTCTCTACCACTGCTCTTCT 2349 C A TT
CA TGAGAAAGA CAGT GTA GGAT
||||||| |||||
ACTCTTCT GTCA CAT CTTA
C C CT

GAM308 LOC149076 5' ATGCCCACTGACCTTTCA 3128 AC A_
TGAGAAAG CAGT GTAT
||||||| |||||
ACTTTTTC GTCA CGTA
CA CC

GAM308 LOC254043 3' ATCTTTCTCTAGTCTTCTC 3667 C T TATT
A TGAGAAAGAC AG AG GGAT
||||||| || |||
ACTCTTCTG TC TC TCTA
A _ TCTT

GAM309 BUB3 3' AAAGGTATTTGGGCAAAC 1149 A_ T
GTTT TCA ATACCTTT
|||||||

CAAA GGT TATGGAAA
 CG T
 GAM309 CLCN6 3' TAAAGGTATGTGCTATGATAAA 815 _____ III
 TTTATCATA TACCTTT A
 ||||||| ||||| |
 AAATAGTAT ATGGAAA T
 CGTGT III
 GAM309 CLCN6 3' TAAAGGTATGTGCTATGATAAA 1957 _____ III
 TTTATCATA TACCTTT A
 ||||||| ||||| |
 AAATAGTAT ATGGAAA T
 CGTGT III
 GAM309 CLCN6 3' TAAAGGTATGTGCTATGATAAA 1958 _____ III
 TTTATCATA TACCTTT A
 ||||||| ||||| |
 AAATAGTAT ATGGAAA T
 CGTGT III
 GAM309 CMAR 3' AAAGGAAGTGATAAACTA 1193 ATA
 TAGTTTATCAT CCTTT
 ||||||| |||||
 ATCAAATAGTG GGAAA
 AA_
 GAM309 CTPS 3' AAAGGTATTTGGGAAACT 3441 AT T
 AGTTT CA ATACCTTT
 ||||| || |||||
 TCAAA GT TATGGAAA
 GG T
 GAM309 RB1 3' AAAGGTGTATTTAACTA 3505 TC
 TAGTTTA ATATACCTTT
 ||||| |||||||
 ATCAAAT TATGTGGAAA
 T_
 GAM309 RP2 3' AAAGGTATATGCAATGCTA 1339 TTAT
 TAGT CATATACCTTT
 ||||| |||||||
 ATCG GTATATGGAAA
 TAAC
 GAM309 WHSC1 3' AAAGGTATATGTGATAAAAT 1394 —
 GTTTATCAT ATACCTTT
 ||||| |||||
 TAAATAGTG TATGGAAA
 TA
 GAM309 ARHGAP11A 3' AAGGGTAGAGATAAACT 1546 ATA
 AGTTTATC TACCTTT
 ||||||| |||||
 TCAAATAG ATGGGAA
 AG_
 GAM309 FLJ20533 3' AAAGGTATGTGAATAAT 1758 —
 GTTTAT CATATACCTTT
 ||||| |||||||

TAAATA GTGTATGGAAA
A
GAM309 MGC16063 3' AAAGGCTTACTGATAAACT 2356 _ TA
AGTTTATCA TA CCTTT
|||||| || |||||
TCAAATAGT AT GGAAA
C TC

GAM309 SEMA3C 3' AAAGGTATAATTAAACT 1293 TCA
AGTTTA TATACCTTT
||||| |||||||
TCAAAT ATATGGAAA
TA_

GAM309 LOC135293 3' AAGGTATAATAACTG 3047 CA
TAGTTTAT TATACCTT
|||||| |||||||
GTCAAATA ATATGGAA

GAM309 LOC153883 3' AAAGGTATATTGACTA 3182 TATC
TAGTT ATATACCTTT
||||| |||||||
ATCAG TATATGGAAA
TT_

GAM309 LOC199692 3' GAGGGTGTAAATAACTG 2521 CA
TAGTTTAT TATACCTTT
||||| |||||||
GTCAAATA ATGTGGGAG

GAM310 MGC5242 5' CCTTACAATCCGAGACTA 2042 —
TGGTCTCGGATT AGG
||||||||| |||
ATCAGAGCCTAA TCC
CAT

GAM310 LOC197259 3' GCCAATCAAGACCAGAA 3422 CG A
TTCTGGTCT GATT GGC
||||||| |||||
AAGACCAGA CTAA CCG
A_ _

GAM311 CRYBA4 3' AAAACTCAAACGAATAAAAAAG 865 _ ATC
CTTTTTAT CGTT GGTTT
||||||| |||||
GAAAAAAATA GCAA TCAAA
A AC_

GAM311 UCHL1 3' GCTGATAAGATAAAAAA 1093 G
TTTTTTATC TTATCGGT
||||||| |||||
AAAAAAATAG AATAGTCG

GAM311 BDG-29 3' GAAAACCGTCTCATACAAAAAG 2944 _ CGTTAT
G CCTTTT TTAT CGGTTTTC
||||||| |||||

	GGAAAAA AATA	GCCAAAAG	
	C CTCT		
GAM311 ERG-1	5' GAAATTTCAATGATAAAAAAGG 1972		ATC
	CCTTTTTATCGTT GGTTTT		
	GGAAAAAAATAGTAA TTAAAG		
	CT_		
GAM311 LOC199837	5' GAAAGAAGAACAAATAGAAAAG 3434	C A GG	
	G CCTTTTTAT GTT TC TTTTC		
	GGAAAAGATA CAA AG GAAAG		
	A _ AA		
GAM312 BHLHB3	3' AAGTCCAAACTGATATATCCTA 2160	A	TTAAA
	TAG ATATATT GGACTT		
	ATC TATATAG CCTGAA		
	C TCAAA		
GAM312 CLN2	3' AAGTCCTTCCAATTATATT 735	T TA	
	GAATATA TT AAGGACTT		
	TTTATAT AA TTCCTGAA		
	T CC		
GAM312 ZFP36L1	3' TCCATAGAACATATATTCT 1165	AA	
	AGAATATATTTA GGA		
	TCTTATATAAGAT CCT		
	A_		
GAM312 C8orf2	3' TCCATTTAAAATACATTTC 1361	A	_
	GAAT TATTTAAA GGA		
	CTTA ATAAAATTT CCT		
	C A		
GAM312 DKFZP566K0524	3' AAGGATTTAAAATATATTCTC 2854		GGA
	GAATATATTTAAA CTT		
	CTTATATAAAAATTT GAA		
	AG_		
GAM312 FIGNL1	3' TTTTTAAGAACATATATTCTA 1980	A	
	TAGAATATATTT AAGGA		
	ATCTTATATAAGA TTTTT		
	A		
GAM312 FLJ10704	3' TTTTTAAAATATATTCTA 1796		
	TAGAATATATTTAAAGGA		
	ATTTTATATAAAAATTTTT		
GAM312 HDAC9-PENDING	3' TCTTTAAAATACATTTA 1528	A	
	TAGAAT TATTTAAAGGA		

ATTTTA ATAAAATTTCT
 C
 GAM312 KIAA1384 3' AAGCCTAAAATATATTAA 2695 AA A
 TAGAATATATTTT AGG CTT
 ||||| |||||
 ATTTATATAAAA TCC GAA

— —
 GAM312 SOX30 3' TTTCTTAAAATATATTCTG 1346 AG
 TAGAATATATTTAA GA
 ||||| |||
 GTCTTATATAAAAATT TT
 CT

GAM312 LOC221810 3' AGTCTTAAAATATATTCTG 3625 G
 TAGAATATATTTAAAG ACT
 ||||| |||||
 GTCTTATATAAAAATTTC TGA

—
 GAM312 LOC255177 3' AGTTCTTAAAATATTCTA 3712 A
 TAGAATAT TTTAAAGGACT
 ||||| |||||
 ATCTTATA AAAATTCTTGA

—
 GAM313 ADRA1A 3' TTCCCATAGACACCCAGCCCAT 2327 CCA__ A
 AG CTATGGGT TCTATG GAA
 ||||| ||||| |||
 GATACCCG AGATAC CTT
 ACCCAC C

GAM313 ARF3 3' TTCTCATAAATGGATCTG 845 C
 TGGGTCCAT TATGAGAA
 ||||| |||||
 GTCTAGGTA ATACTCTT
 A

GAM313 C14orf1 3' TCTCTGCTGCTGGACCCAAGA 1362 A TCTAT_
 TCT TGGGTCCA GAGA
 ||| ||||| |||||
 AGA ACCCAGGT CTCT
 — CGTCGT

GAM313 CTNNA2 3' TTCTCATAAAATTGGGCACA 1108 G TC__
 TG GTCCA TATGAGAA
 ||| ||||| |||||
 AC CGGGT ATACTCTT
 A TAAA

GAM313 FAT2 3' TTCTCATACCTGCCACAG 829 A CCATC
 CT TGGGT TATGAGAA
 ||| ||||| |||||
 GA ACCCG ATACTCTT
 C TCC__

GAM313 GALNT3 3' TTCAATGGACCCACAGG 1118 A CTA
 TCT TGGGTCCAT TGAG
 ||| ||||| |||||

GGA ACCCAGGTA ACTT
 C _____
 GAM313 HMG20A 3' TCTCATAGTATGCCATA 1801 CCAT
 TATGGGT CTATGAGA
 ||||| |||||
 ATACCCG GATACTCT
 TAT_
 GAM313 HPCA 3' TCTCACACACACACAGGCCAT 903 CATCTA_____
 AGA TCTATGGGTC TGAGA
 ||||| |||||
 AGATACCCGG ACTCT
 ACACACACAC
 GAM313 MTMR3 3' CTCACAGATGGATAATG 1939 GG A
 TAT GTCCATCT TGAG
 ||| ||||| |||
 GTA TAGTAGA ACTC
 AA C
 GAM313 PIGR 3' CTCACATGGACCCAAGA 2955 A CTA
 TCT TGGGTCAT TGAG
 ||| ||||| |||
 AGA ACCCAGGTA ACTC
 _ C_____
 GAM313 PIWIL1 3' TTCTCATAGATATTTGTG 2959 GG TCC
 TAT G ATCTATGAGAA
 ||| | |||||||
 GTG T TAGATACTCTT
 TT TA_
 GAM313 SORBS1 3' TTCTCATAGAACACCA 1625 _ CCA
 TGG GT TCTATGAGAA
 ||| || |||||
 ACC CA AGATACTCTT
 A _____
 GAM313 TOP3A 3' TTCTCATAGACGTCTTGAGA 1132 A TCCA
 TCT TGGG TCTATGAGAA
 ||| ||| |||||
 AGA GTCC AGATACTCTT
 _ TGC_
 GAM313 UC28 3' TTCTCAATCTTGAACTCATAGA 1951 C TCTA
 TCTATGGGT CA TGAGAA
 ||||| || |||||
 AGATACTCA GT ACTCTT
 A TCTA
 GAM313 ARL5 3' TTCTCATAGATTTGTG 1406 GG TCC
 TAT G ATCTATGAGAA
 ||| | |||||||
 ATG T TAGATACTCTT
 TT _____
 GAM313 DDM36 3' TCTCATAGGAGCATAGA 1932 GG ATC
 TCTATG TCC TATGAGA
 ||||| || |||||

AGATAC AGG ATACTCT
G_ _
GAM313 FLJ21596 3' TCTCAGGGTGGGACCCATA 2093 _ A
TATGGGTCC ATCT TGAGA
||||||| |||||
ATACCCAGG TGGG ACTCT
G_ _
GAM313 FLJ22202 5' TCCAGGAGATGGACCAACAGA 2102 ATG A_ A
TCT GGTCCATCT TG GA
||| ||||| |||||
AGA CCAGGTAGA AC CT
CAA GG _
GAM313 GPNMB 3' TCTCATAAAATGGGTGGGA 935 ATGGG C
TCT TCCAT TATGAGA
||| ||||| |||||
AGG GGGTA ATACTCT
GT_ _ A
GAM313 HSZFP36 3' CAGGAGATGGACCCCAGA 2659 AT A_
TCT GGGTCCATCT TG
||| ||||| |||
AGA CCCAGGTAGA AC
C_ GG
GAM313 IPLA2(GAMMA) 3' TTCTCATAAAATGAAGGTCTGT 2577 GT_ _ C
ATGG C CAT TATGAGAA
||| | ||||| |||||
TGTC G GTA ATACTCTT
TG AA A
GAM313 KIAA0648 3' TTCTCATAGATAATCAAGA 3258 A GTCC
TCT TGG ATCTATGAGAA
||| ||| ||||| |||||
AGA ACT TAGATACTCTT
_ AA_ _
GAM313 KIAA1239 3' TTCATGTAACCCATAGA 2915 CCATC
TCTATGGT TATGAG
||||||| |||||
AGATACCCA GTACTT
AT_ _
GAM313 KIAA1577 5' TTCTCATGGGTACCCCAGA 2691 AT CC
TCT GGGT ATCTATGAGAA
||| ||| ||||| |||||
AGA CCCA TGGGTACTCTT
C_ _
GAM313 KIAA1821 3' CTCATCCTGTACCTATAGA 2926 C TCT
TCTATGGT CA ATGAG
||||||| ||| |||||
AGATATCCA GT TACTC
T CC_ _
GAM313 KIAA1853 5' CTCAGGATGGACCCCTCAGA 2857 AT A
TCT GGGTCCATCT TGAG
||| ||||| |||||

AGA CCCAGGTAGG ACTC
CT _
GAM313 MGC3169 3' TCTCTGCCAGGACCCATAGA 2051 _ ATCTAT
TCTATGGG TCC GAGA
|||||| ||| |||
AGATAACC AGG CTCT
C ACCGT_

GAM313 MST4 3' TTCATATGGACCCAGAGA 1696 A TC
TCT TGGGTCCA TATGAG
||| ||||| |||||
AGA ACCCAGGT ATACTT
G _
GAM313 PDE10A 3' ATTCTCACAGATCAGATCACTC 1321 ____ C_ A III
CATAGA TGG GTC ATCT TGAGAA T
||| ||| ||||| |
ACC TAG TAGA ACTCTT A
TCAC AC C III

GAM313 SKD3 3' TTCTAAGGGGAAGGGACCCATA 2170 A_ ATG_
GA TCTATGGTCC TCT AGAA
||||||| ||| |||
AGATAACCAGG AGG TCTT
GA GGAA

GAM313 STX18 3' CTCATGGCACTCACAGA 1714 A CCA
TCT TGGGT TCTATGAG
||| |||||
AGA ACTCA GGGTACTC
C C_

GAM313 LOC115811 5' CTCTGTGGACCTACAGA 2441 A CTAT
TCT TGGGTCCAT GAG
||| ||||| |||
AGA ATCCAGGTG CTC
C T_

GAM313 LOC131308 3' TTCCAGCCTGAACCCATGGA 3013 C TCTA A
TCTATGGT CA TG GAA
||||||| ||| |||
AGGTACCCA GT AC CTT
A CCG_ _

GAM313 LOC139221 3' TCTCATAGATACTAGTTGA 3036 TATG CC
TC GGT ATCTATGAGA
||| |||||
AG TCA TAGATACTCT
TTGA _

GAM313 LOC158490 5' TCTCATAGGACTGTCCTAGA 3220 T TCCA
TCTA GGG TCTATGAGA
||||||| |||||
AGAT CCT GGATACTCT
_ GTCA

GAM313 LOC221466 5' CTCAGGATCCATAGA 3618 ATCTA
TCTATGGTCC TGAG
||||||| ||||

AGATAACCTAGG ACTC

GAM313 LOC221540 3' TTCTCATAAATCCCCGCCCA 3621 CC__ C
TGGGT AT TATGAGAA
|||| |||||||
ACCCG TA ATACTCTT
CCCC A

GAM313 LOC222233 5' CTCAGCAGAGACAGACCCAGA 3648 AT CA__ A_
TCT GGGTC TCT TGAG
||| ||||| |||||
AGA CCCAG AGA ACTC
C_ ACAG CG

GAM313 LOC255042 3' TTCTCACAGATGGGCAGCA 3671 G_ A
TG GTCCATCT TGAGAA
|| |||||||
AC CGGGTAGA ACTCTT
GA C

GAM313 LOC256117 3' CTCATTGAGACCCCATAAGA 3705 _ CATCT
TCTATGGG TC ATGAG
|||||| || |||||
AGATAACCC AG TACTC
C AGCT_

GAM313 LOC257545 3' TTCTCATAAATCCCCGCCCA 3747 CC__ C
TGGGT AT TATGAGAA
|||| |||||||
ACCCG TA ATACTCTT
CCCC A

GAM313 LOC257598 3' TTCTCATAAATCCCCGCCCA 3750 CC__ C
TGGGT AT TATGAGAA
|||| |||||||
ACCCG TA ATACTCTT
CCCC A

GAM314 CHAC 3' TGCCCATATGTCCATTAT 1612 AGAT
ATAAGTGGACATAT GCA
||||||||| |||
TATTTACCTGTATA CGT
CC__

GAM314 GGCX 3' CTGCACCCTGCCACTTGT 778 A TATAGA
ATAAGTGG CA TGCAG
|||||| || |||||
TGTTCAACC GT ACGTC
_ CCC__

GAM314 ITPKB 3' TCTGCATCTGTCCAC 911 TATA
GTGGACA GATGCAGA
||||| |||||||
CACCTGT CTACGTCT

GAM314 KCNAB1 3' TCTAATGTTATGTCCACTTA 2584 _____
TAAGTGGACATA TAGA
||||||||| |||||

ATTCACCTGTAT ATCT
TGTA

GAM314 KLRC4 5' CTGCAAAATATAACCACTTA 1451 ACA GA_ _
T ATAAGTGG TATA TG CAG
|||||| |||| |||||
TATTCAACC ATAT AC GTC
AC_ AAA T

GAM314 MLF2 3' TCTGCATCTACTGACTTG 1212 _ ACATA
TAAGT GG TAGATGCAGA
|||||| |||||||||
GTTCA TC ATCTACGTCT
G _____

GAM314 NR1I2 3' TCTGCATCCATTGAACAC 1971 GA T A
GTG CA AT GATGCAGA
||| |||||
CAC GT TA CTACGTCT
AA T C

GAM314 NR1I2 3' TCTGCATCCATTGAACAC 1067 GA T A
GTG CA AT GATGCAGA
||| |||||
CAC GT TA CTACGTCT
AA T C

GAM314 CEP3 3' TTCTACATCAGATGTTGTCACT 1304 _ ATA C
TAT ATAAGTG GACAT GATG AGAA
|||||| ||||| |||||
TATTCAC TTGTA CTAC TCTT
TG GA_ A

GAM314 FHX 3' TCATGGATCATGTCCAC 1825 ATA G _
GTGGACAT GAT CA GA
|||||| |||||
CACCTGTA CTA GT CT
____ G A

GAM314 FLJ10352 3' TTCTGCATCTACAACCTAACAT 2233 GACATA_ _
TTA ATAAGTG TAGATGCAGAA
|||||| |||||||||
ATTAC ATCTACGTCTT
AACTCAAC

GAM314 FLJ22127 3' TCGAGTCCATATGTCCAC 2008 A GCA
GTGGACATAT GAT GA
|||||| |||||
CACCTGTATA CTG CT
C AG_

GAM314 GDAP1L1 3' TCTGCATCCATGCCAC 2043 A ATA
GTGG CAT GATGCAGA
|||||| |||||
CACC GTA CTACGTCT
_ C_

GAM314 H-L(3)MBT 3' TCTGCTCTACCCACT 2230 ACA T T
AGTGG TA AGA GCAGA
|||||| |||||

TCACC AT TCT CGTCT
C__ C __
GAM314 KIAA1340 3' TCTAAGCTATGCCCATTTAT 2846 A __
ATAAGTGG CATA TAGA
|||||| |||| |||||
TATTTACC GTAT ATCT
C CGA

GAM314 KNSL7 3' TTCTGCATCCATATACACCCCT 1905 T AC_ A
AG GG ATAT GATGCAGAA
|| || |||| |||||
TC CC TATA CTACGTCTT
_ ACA C

GAM314 P5-1 3' CTCCATTATGTACCCAC 1322 AC C
GTGG ATATAGATG AG
||| ||||| |||
CACC TGTATTTAC TC
CA C

GAM314 PP1044 5' CTGCATCTTACCTATCCAT 1956 C T __
TTA TAAGTGGATA AGATGCAG
|||||| ||| |||||
ATTACCT TAT TCTACGTC
A CCATT

GAM314 SIRPB1 3' TGCATGTGTCCACTTA 1272 ATAG
TAAGTGGACAT ATGCA
||||||| |||||
ATTCACCTGTG TACGT

GAM314 LOC148811 3' CTGCATCTCTCCCCCTTA 3126 T CATAT
TAAG GGA AGATGCAG
||| ||| |||||
ATTC CCT TCTACGTC
C C __

GAM314 LOC149711 3' TCCATATGTCTATCCACTTA 3315 ___ A
TAAGTGGAA CATAT GA
|||||| ||||| |||
ATTCACCT GTATA CT
ATCT C

GAM314 LOC150630 5' CTGCATCTTGCCACT 3332 A TAT
AGTGG CA AGATGCAG
||| ||| |||||
TCACC GT TCTACGTC
_ CT_

GAM314 LOC150819 5' CTGCATTTAGTCCAATC 3333 _ ATAT
AGT GGAC AGATGCAG
||| ||| |||||
TCA CCTG TTTACGTC
A AT __

GAM314 LOC154877 3' TCTGCATCCATTCCACT 3373 CAT A
AGTGGAA AT GATGCAGA
||||| || |||||

TCACCT TA CTACGTCT
 __ C
GAM314 LOC158327 3' TTCTGCAGGGACACCACTTAT 3216 ACATATAGA
 ATAAGTGG TGCAGAA
 |||||| |||||
 TATTCACC ACGTCTT
 ACAGGG__
GAM314 LOC196540 3' TCTGCATCCATGTACTCC 3467 C_ A
 GGA ATAT GATGCAGA
 ||| |||| |||||
 CCT TGTA CTACGTCT
 CA C
GAM314 LOC220394 5' TCTCAGAACATGTCCAT 3581 AGA C
 GTGGACATAT TG AGA
 ||||||| || |||
 TACCTGTATA AC TCT
 AG_ _
GAM314 LOC254428 3' CTGTTGACCCATGTCCACCTAT 3677 A ATAGAT
 ATA GTGGACAT GCAG
 ||| ||||| |||||
 TAT CACCTGTA TGTC
 C CCCAGT
GAM314 LOC92405 3' TTCTGTTACACATGTCTACTTA 2848 ATAGAT
 TAAGTGGACAT GCAGAA
 ||||||| |||||
 ATTCATCTGTA TGTCTT
 CACAT_
GAM315 PIGH 3' CAAGATCATAGTATTCAGTCA 1126 T _ GTA
 TG CT AAAT ATTATGATCTTG
 || ||||| |||||||||
 AC GA TTTA TGATACTAGAAC
 T C __
GAM315 PRSC 3' CAAGATCATATAATTTATAGA 1313 AATGT
 TCTA AATTATGATCTTG
 ||| |||||||||
 AGAT TTAATACTAGAAC
 ATT_ _
GAM315 PXMP4 3' CAAGATCATAGGCCTCAGAC 1370 AAATGTAA
 GTCT TTATGATCTTG
 ||| |||||||||
 CAGA GATACTAGAAC
 CTCCG__
GAM316 C1orf1 5' TATGCTGACAGAAGAACCA 809 CC A A
 TGGTTCTTT GT CA CATA
 ||||||| || |||||
 ACCAAGAAC CA GT GTAT
 A_ _ C
GAM316 LRAT 3' AGTATGCATACATAAAAGCAAC 2556 _ CC_ CAA
 CA TGGTT CTTT GTA CATACT
 ||||||| ||| |||||

ACCAA GAAA CAT GTATGA
 C ATA AC_
 GAM316 MYBL1 3' AGTATGTTACAAATGCCA 2679 TCTTTCC C
 TGGT GTA AACATACT
 ||||| |||||
 ACCG CAT TTGTATGA
 TAAA__ A

GAM316 KIAA1028 3' TATGTCTGCATTGAAAAGAAC 3547 C TA_ _
 A TGTTTCTT CG CA ACATA
 ||||| |||||
 ACCAAGAAA GT GT TGTAT
 A TAC C

GAM316 MGC2488 3' TGTAGTGGAAAGAACAT 2045 G _
 ATG TTCTTCG TACA
 ||||| |||||
 TAC AAGAAAGGT ATGT
 G G

GAM317 CX3CR1 3' ACTGCCTACTGCATCGAGTCA 2891 TCCCTTAA
 TGACTCG TAGGCAGT
 ||||| |||||
 ACTGAGC ATCCGTCA
 TACGTC_

GAM317 WNT14 3' CTGCAAGGGACGAGTC 1014 AATAG
 GACTCGTCCCTT GCAG
 ||||| |||||
 CTGAGCAGGGAA CGTC

GAM317 FLJ20275 3' TACTGCCTTCATAAGATCAAGT 1745 CGTCC AT_
 CA TGACT CTTA AGGCAGTA
 ||||| |||||
 ACTGA GAAT TCCGTCAT
 ACTA_ ACT

GAM317 FLJ22390 5' TACTGCCTATCAAACG 2002 CCC A
 CGT TT ATAGGCAGTA
 ||| |||||||
 GCA AA TATCCGTCA
 C

GAM318 LOC120864 5' CAAGGTCCAAACTGATATAA 2986 CGTAG
 TTGTATCAGTT TCTTG
 ||||| |||||
 AATATAGTCAA GGAAC
 CCT_

GAM319 KIAA0626 3' AACATCAGGGTGCAGAATTGAT 1954 C_ A_
 ATCGATTC CAT TGATGTT
 ||||| |||||
 TAGTTAAG GTG ACTACAA
 AC GG

GAM319 KIAA1239 3' AACATCATGATTATTGATG 2914 TCCCA
 CATCGAT TATGATGTT
 ||||| |||||

GTAGTTA GTACTACAA
TTA_

GAM319 LOC201475 5' AACATCATATATTTGATGTTA 3428 TTCCC
TAACATCGA ATATGATGTT
|||||| |||||||
ATTGTAGTT TATACTACAA
TTA_

GAM320 CAPN2 3' AAAACTTATGAACCTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| || |||||
AC ACTTCA GTATT TCAAAA
C A _

GAM320 DAAM2 3' AAAATTCTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
|||||| || |||||
ACTACCTCA AT TTTTAAAAA
AA C

GAM320 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|| ||||| || |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM320 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
|||||| |||||
ACTACCTTA CGTT CAAAAA
_ C_

GAM320 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||| || |||||
AC GCCTCAGCAT TTG
C C_

GAM320 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM320 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||| || |||||
AC GCCTCAGCAT TTG
C C_

GAM321 CAPN2 3' AAAACTTATGAACCTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| || |||||
AC ACTTCA GTATT TCAAAA
C A _

GAM321 DAAM2 3' AAAATTCTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
|||||| || |||||

ACTACCTCA AT TTTTAAAAA
AA C

GAM321 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM321 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
||||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__

GAM321 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM321 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM321 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM322 CAPN2 3' AAAACTTTATGAACTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM322 DAAM2 3' AAAATTTTCTAAAACCTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
||||||| || |||||
ACTACCTCA AT TTTTAAAAA
AA C

GAM322 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| | |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM322 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
||||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__

GAM322 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||

AC GCCTCAGCAT TTCG
C C__
GAM322 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C
GAM322 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTCG
C C__
GAM323 CAPN2 3' AAAACTTTATGAACCTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| || |||||
AC ACTTCA GTATT TCAAAA
C A __
GAM323 DAAM2 3' AAAATTTTCTAAAACCTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
||||||| || |||||
ACTACCTCA AT TTTTAAAA
AA C
GAM323 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
||||||| || |||||
ATTACCT CA CAT TCAAAA
T _ CCTC
GAM323 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
||||||| || |||||
ACTACCTTA CGTT CAAAA
_ C__
GAM323 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTCG
C C__
GAM323 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C
GAM323 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTCG
C C__
GAM324 CAPN2 3' AAAACTTTATGAACCTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| || |||||

AC ACTTCA GTATT TCAAAA
C A __
GAM324 DAAM2 3' AAAATTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTT
|||||| || |||||
ACTACCTCA AT TTTTAAAA
AA C

GAM324 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| || ||| |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM324 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
|||||| |||||
ACTACCTTA CGTT CAAAA
_ C__

GAM324 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM324 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM324 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM325 CAPN2 3' AAAACTTTATGAACTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM325 DAAM2 3' AAAATTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTT
|||||| || |||||
ACTACCTCA AT TTTTAAAA
AA C

GAM325 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| || ||| |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM325 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
|||||| |||||

			ACTACCTTA CGTT	CAAAA		
			_ C_			
GAM325	LOC222671	5'	GCTTCTACGACTCCGCCA	3582	A	AAA
			TG TGGAGTCGTA	AAGT		
			AC GCCTCAGCAT	TTCG		
			C C_			
GAM325	LOC254901	5'	AATTTCTTCACTGACTCCACCA	3699	A	_ A A
			TG TGGAGTC GT AA	AAGTT		
			AC ACCTCAG CA TT	TTTAA		
			C T C C			
GAM325	LOC257615	5'	GCTTCTACGACTCCGCCA	3749	A	AAA
			TG TGGAGTCGTA	AAGT		
			AC GCCTCAGCAT	TTCG		
			C C_			
GAM326	CAPN2	3'	AAAACTTTATGAACCTCACCA	855	A	_ AAA
			TG TGGAGT CGTAA	AGTTTT		
			AC ACTTCA GTATT	TCAAAA		
			C A _			
GAM326	DAAM2	3'	AAAATTTTCTAAACTCCATC	3559		CG A
		A	TGATGGAGT TA AAAAGTTTT			
			ACTACCTCA AT TTTTAAAAA			
			AA C			
GAM326	SELE	3'	AAAACCTCTCCTACACTCCATT	747		_ C AAAA
		A	TGATGGGA GT GTA	AGTTTT		
			ATTACCT CA CAT	TCAAAA		
			T _ CCTC			
GAM326	KIAA0475	3'	AAAACCTTGCATCCATCA	1570	C	AAAA
			TGATGGAGT GTAA	GTTTT		
			ACTACCTTA CGTT	CAAAA		
			_ C_			
GAM326	LOC222671	5'	GCTTCTACGACTCCGCCA	3582	A	AAA
			TG TGGAGTCGTA	AAGT		
			AC GCCTCAGCAT	TTCG		
			C C_			
GAM326	LOC254901	5'	AATTTCTTCACTGACTCCACCA	3699	A	_ A A
			TG TGGAGTC GT AA	AAGTT		
			AC ACCTCAG CA TT	TTTAA		
			C T C C			
GAM326	LOC257615	5'	GCTTCTACGACTCCGCCA	3749	A	AAA
			TG TGGAGTCGTA	AAGT		

AC GCCTCAGCAT TTG
C C
GAM327 CAPN2 3' AAAACTTATGAACTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM327 DAAM2 3' AAAATTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
|||||| |||||||
ACTACCTCA AT TTTTAAAAA
AA C

GAM327 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|| ||||| |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM327 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
||||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__

GAM327 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM327 LOC254901 5' ATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM327 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM328 CAPN2 3' AAAACTTATGAACTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM328 DAAM2 3' AAAATTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
|||||| | |||||
ACTACCTCA AT TTTTAAAAA
AA C

GAM328 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|| ||||| |||||

ATTACCT CA CAT TCAAAA
T _ CCTC
GAM328 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAAA
TGATGGAGT GTAA GTTTT
|||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__
GAM328 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTG
C C__
GAM328 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C
GAM328 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTG
C C__
GAM329 CAPN2 3' AAAACTTATGAACTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __
GAM329 DAAM2 3' AAAATTCTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
|||||| || |||||
ACTACCTCA AT TTTTAAAAA
AA C
GAM329 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAAA
A TGATGGA GT GTA AGTTTT
|||||| || |||||
ATTACCT CA CAT TCAAAA
T _ CCTC
GAM329 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAAA
TGATGGAGT GTAA GTTTT
|||||| |||||
ACTACCTTA CGTT CAAAAA
_ C__
GAM329 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTG
C C__
GAM329 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||

AC ACCTCAG CA TT TTTAA
 C T C C
 GAM329 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
 TG TGGAGTCGTA AAGT
 ||||||| |||||
 AC GCCTCAGCAT TTCG
 C C_

GAM330 CAPN2 3' AAAACTTTATGAACCTCACCA 855 A _ AAA
 TG TGGAGT CGTAA AGTTTT
 ||||||| |||||
 AC ACTTCA GTATT TCAAAA
 C A _

GAM330 DAAM2 3' AAAATTTCTAAACTCCATC 3559 CG A
 A TGATGGAGT TA AAAAGTTTT
 ||||||| |||||||
 ACTACCTCA AT TTTTAAAAA
 AA C

GAM330 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
 A TGATGGA GT GTA AGTTTT
 ||||||| |||||
 ATTACCT CA CAT TCAAAA
 T _ CCTC

GAM330 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
 TGATGGAGT GTAA GTTTT
 ||||||| |||||
 ACTACCTTA CGTT CAAAAA
 _ C_

GAM330 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
 TG TGGAGTCGTA AAGT
 ||||||| |||||
 AC GCCTCAGCAT TTCG
 C C_

GAM330 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
 TG TGGAGTC GT AA AAGTT
 ||||||| |||||
 AC ACCTCAG CA TT TTTAA
 C T C C

GAM330 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
 TG TGGAGTCGTA AAGT
 ||||||| |||||
 AC GCCTCAGCAT TTCG
 C C_

GAM331 ITGB7 5' AGAGAAAGTCTGACTTGCCCCA 783 AAAA_ TTAT
 C GT AAGTT CTTTCTCT
 || ||||| |||||||
 CA TTCAG GAAAGAGA
 CCCCCG TCT_

GAM331 RPP30 3' AGAGAAAGACAACGTGTTCTGCG 1297 A A TTA
 CGTA AA AGTT TCTTTCTCT
 ||||| ||||| |||||||

GCCT TT TCAA AGAAAGAGA
C G C_

GAM331 FLJ13263 3' AGAGAAAGATTTAGCTTT 2139 TT_
AAAAGTT ATCTTCTCT
|||||| |||||||
TTTCGA TAGAAAGAGA
TTT

GAM331 FLJ23074 5' AGAGAAAGACAAGGGTTT 2133 G A
AAA TTTT TCTTCTCT
||| |||| |||||||
TTT GGAA AGAAAGAGA
G C

GAM331 GTF2A2 3' AGAAAAAAATATGACTTTTAC 1119 T C_
GTAAAAAAAGTT TAT TTTCT
||||||| ||| |||||
CATTTTTTCAG ATA AAAGA
T AA

GAM331 IMP-2 3' AGAGAAAGCAGGCTTTCTA 1308 A TAT
TA AAAAGTTT CTCTCTCT
|| | ||||| |||||||
AT TTTTCGGA GAAAGAGA
C C_

GAM331 KIAA0212 3' AGAAAGGTAAATCTTTTAC 1518 A T
GTAAAAA G TTTATCTTCT
||||| | |||||||
CATTTTT C AAATGGAAAGA
_ T

GAM331 OSBPL2 5' AGAGAAAGTTGTAAAATTCC 1566 AAA
TAC GTAA AGTTTTAT CTCTCTCT
||| ||||| |||||||
CATT TTAAAATG GAAAGAGA
CC_ TTT

GAM331 OSBPL2 5' AGAGAAAGTTGTAAAATTCC 2482 AAA
TAC GTAA AGTTTTAT CTCTCTCT
||| ||||| |||||||
CATT TTAAAATG GAAAGAGA
CC_ TTT

GAM331 RBM9 3' AGAAAGAACTTTTTAT 1489 TTTA
GTAAAAAAAGT TCTTCTCT
||||| |||||
TATTTTTCA AGAAAGA
TA_

GAM331 LOC254826 3' AGAGAAAGTCTTGCTTTT 3732 TTTAT
AAAAAGT CTCTCTCT
||||| |||||
TTTTTCG GAAAGAGA
TTCT_

GAM332 DSC3 3' TAAAATCTATGTGTTTAGACT 871 AGT A
TAAGTT AATACATA ATTTTA
||||| ||||| |||||

ATTCAG TTGTGTAT TAAAAT
ATT C
GAM332 DSC3 3' TAAAATCTATGTGTTTAGACT 2060 AGT A
TA TAAGTT AATACATA ATTTA
||||| ||||| |||||
ATTCAG TTGTGTAT TAAAAT
ATT C
GAM332 FLJ20366 3' AAGTTTACATGTACTAACTTA 1751 ATACA
TAAGTTAGTA TAAATTT
||||||| |||||
ATTCAATCAT ATTTGAA
GTAC_
GAM333 CAPN2 3' AAAACTTTATGAACCTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __
GAM333 DAAM2 3' AAAATTTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTTT
||||||| || |||||
ACTACCTCA AT TTTTAAAA
AA C
GAM333 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
||||||| || |||||
ATTACCT CA CAT TCAAAA
T _ CCTC
GAM333 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
||||||| |||||
ACTACCTTA CGTT CAAAA
_ C__
GAM333 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTCG
C C__
GAM333 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C
GAM333 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||| |||||
AC GCCTCAGCAT TTCG
C C__
GAM334 CAPN2 3' AAAACTTTATGAACCTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||

AC ACTTCA GTATT TCAAAA
C A __
GAM334 DAAM2 3' AAAATTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTT
|||||| || |||||
ACTACCTCA AT TTTTAAAA
AA C

GAM334 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| || ||| |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM334 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
|||||| |||||
ACTACCTTA CGTT CAAAA
_ C__

GAM334 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM334 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
TG TGGAGTC GT AA AAGTT
|| ||||| || |||||
AC ACCTCAG CA TT TTTAA
C T C C

GAM334 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
TG TGGAGTCGTA AAGT
|| ||||||| |||||
AC GCCTCAGCAT TTG
C C__

GAM335 CAPN2 3' AAAACTTTATGAACTTCACCA 855 A _ AAA
TG TGGAGT CGTAA AGTTTT
|| ||||| |||||
AC ACTTCA GTATT TCAAAA
C A __

GAM335 DAAM2 3' AAAATTTCTAAACTCCATC 3559 CG A
A TGATGGAGT TA AAAAGTTT
|||||| || |||||
ACTACCTCA AT TTTTAAAA
AA C

GAM335 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
A TGATGGA GT GTA AGTTTT
|||||| || ||| |||||
ATTACCT CA CAT TCAAAA
T _ CCTC

GAM335 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
TGATGGAGT GTAA GTTTT
|||||| |||||

			ACTACCTTA CGTT	CAAAA		
			_ C_			
GAM335	LOC222671	5'	GCTTCTACGACTCCGCCA	3582	A	AAA
			TG TGGAGTCGTA	AAGT		
			AC GCCTCAGCAT	TTCG		
			C C_			
GAM335	LOC254901	5'	AATTTCTTCACTGACTCCACCA	3699	A	_ A A
			TG TGGAGTC GT AA	AAGTT		
			AC ACCTCAG CA TT	TTTAA		
			C T C C			
GAM335	LOC257615	5'	GCTTCTACGACTCCGCCA	3749	A	AAA
			TG TGGAGTCGTA	AAGT		
			AC GCCTCAGCAT	TTCG		
			C C_			
GAM336	CAPN2	3'	AAAACTTTATGAACCTCACCA	855	A	_ AAA
			TG TGGAGT CGTAA	AGTTTT		
			AC ACTTCA GTATT	TCAAAA		
			C A _			
GAM336	DAAM2	3'	AAAATTTTCTAAACTCCATC	3559		CG A
		A	TGATGGAGT TA AAAAGTTTT			
			ACTACCTCA AT TTTTAAAAA			
			AA C			
GAM336	SELE	3'	AAAACCTCTCCTACACTCCATT	747		_ C AAAA
		A	TGATGGGA GT GTA	AGTTTT		
			ATTACCT CA CAT	TCAAAA		
			T _ CCTC			
GAM336	KIAA0475	3'	AAAACCTTGCATCCATCA	1570	C	AAAA
			TGATGGAGT GTAA	GTTTT		
			ACTACCTTA CGTT	CAAAA		
			_ C_			
GAM336	LOC222671	5'	GCTTCTACGACTCCGCCA	3582	A	AAA
			TG TGGAGTCGTA	AAGT		
			AC GCCTCAGCAT	TTCG		
			C C_			
GAM336	LOC254901	5'	AATTTCTTCACTGACTCCACCA	3699	A	_ A A
			TG TGGAGTC GT AA	AAGTT		
			AC ACCTCAG CA TT	TTTAA		
			C T C C			
GAM336	LOC257615	5'	GCTTCTACGACTCCGCCA	3749	A	AAA
			TG TGGAGTCGTA	AAGT		

AC GCCTCAGCAT TTCG
C C__
GAM337 FGF2 3' ATATTTTGTCGGCTGCTTTT 884 T_
AAAAAAGT TTACAAAATAT
|||||| |||||||
TTTTTCG GGTGTTTTATA
TC

GAM337 MPHOSPH1 3' ATATTTTATAAGGCTTTTT 1670 C
AAAAAAAGTTTA AAAAATAT
|||||| |||||||
TTTTTCGGAAT TTTTATA
A

GAM337 FLJ11274 3' ATATCTTGAGTAGCTTTTT 1820 _ A
TA TAAAAAAAGTT TTACAAA ATAT
|||||| |||||
ATTTTTTCGA GATGTTT TATA
T C

GAM337 FLJ31101 3' ATATTTTGTAAAATGTATTTG 1771 AAAA
T ATAAA GTTTACAAAATAT
|||||| |||||||
TGTTC TAAAATGTTTTATA
ATG_

GAM337 GPT2 3' ATATTTTGTAACAATTGCTTT 2417 T_____
TTT AAAAAAGT TTACAAAATAT
|||||| |||||||
TTTTTCG AATGTTTTATA
TTAAC

GAM337 RMP 3' TTTTGTAAAACTTTTTTC 2430 T
A AAAAAAAAGTTTACAAA
| |||||||||
C TTTTTTCAAAATGTTT
T

GAM337 RMP 3' TTTTGTAAAACTTTTTTC 1059 T
A AAAAAAAAGTTTACAAA
| |||||||||
C TTTTTTCAAAATGTTT
T

GAM337 SOX6 3' ATATTTTGCTTACTTTTTT 2328 TTT
AAAAAAAGT ACAAAAATAT
|||||| |||||||
TTTTTTCA TGTTTTATA
TTC

GAM337 LOC136288 3' ATATTTCTGAGGCTTTTTGT 3018 CAA
ATAAAAAAAGTTTA AAATAT
|||||| |||||
TGTTTTTTCGGAGT TTTATA
C__

GAM338 AICDA 3' AGAAAGAGAACAAATATT 1922 TTTA
AAATATT TTCTCTTTCT
|||||| |||||||

TTTATAA AAGAGAAAGA
C_____
GAM338 AS3 3' AGAAAGATTTAAAGTATTAA 1652 TATTC
TAAAATATTT TCTTCT
||||||| |||||
ATTTTATGAAA AGAAAGA
TTT_____
GAM338 EPM2A 3' AGAAAGAGAAGTGTTT 1234 TTTTA
AAAATAT TTCTCTTCT
||||| |||||||
TTTGTG AAGAGAAAGA

GAM338 HRH1 3' AGAAAGAGAAATGAAATATTAA 780 TA
AAAATATTT TTCTCTTCT
||||||| |||||
TTTTATAAAG AAGAGAAAGA
TA

GAM338 MAPK14 3' GAGAAAGGGCAAATTATTTA 818 T TATT
TAAAATA TTT CTCTTCTC
||||| ||| |||||
ATTTTAT AAA GGGAAAGAG
T C_____
GAM338 MAPK14 3' GAGAAAGGGCAAATTATTTA 2465 T TATT
TAAAATA TTT CTCTTCTC
||||| ||| |||||
ATTTTAT AAA GGGAAAGAG
T C_____
GAM338 MAPK14 3' GAGAAAGGGCAAATTATTTA 2466 T TATT
TAAAATA TTT CTCTTCTC
||||| ||| |||||
ATTTTAT AAA GGGAAAGAG
T C_____
GAM338 NOTCH2 3' GAGAATTAAAATATTAA 2058 T
TAAAATATTT ATTCTC
||||||| |||||
ATTTTATAAAA TAAGAG
T

GAM338 SIM1 3' GAGAAAGAGAGAGATA 1181 TAT
TATTTT TCTCTTCTC
||||| |||||||
ATAGAG AGAGAAAGAG

GAM338 C11orf25 3' AAAGAGAAAAATATTAA 2193 TAT
TAAAATATTT TCTCTT
||||||| |||||
ATTTTATAAAA AGAGAAA

GAM338 DKFZP564D116 3' GAAAAGCAATAAAAATATTAA 2938 _ C
TAAAATATTTTATT CT TTTC
|||||||||| |||||

			ATTTTATAAAAATAA	GA AAAG		
			C	—		
GAM338	DSCR6	3'	GAGAAAGAGAAGGTCTATGTCA	1866	A	TTTTA
			A ATAT	TTCTCTTCTC		
			A TGTA	AAGAGAAAGAG		
			C TCTGG			
GAM338	FLJ10006	3'	GAGAAAGAAGATATTTA	3152		A
			TAAAATATTTT TTCTC			
			ATTTTATAGAAG AAGAG			
			A			
GAM338	HTPAP	3'	GAGAATAAAAAGATTTA	2255	A	
			TAAAAT TTTTTATTCTC			
			ATTTTA AAAAATAAGAG			
			G			
GAM338	KIAA0979	3'	AGAAAGATTTAAAGTATTTA	1601		TATTC
			TAAAATATTTT TCTTTCT			
			ATTTTATGAAA AGAAAGA			
			TTT—			
GAM338	KIAA1634	3'	GAGAATAAAACTATTTA	2657	T	
			TAAAATA TTTTATTCTC			
			ATTTTAT AAAATAAGAG			
			C			
GAM338	PTD012	3'	GAGATTGGGAACAAAAATAT	1465	A	TT
			ATATTTTT TTCTC TCTC			
			TATAAAAA AAGGG AGAG			
			C TT			
GAM338	SAMHD1	3'	AGAAAGAGAAAGAAATAT	2593	A	
			ATATTTTT TTCTCTTCT			
			TATAAAGA AAGAGAAAGA			
			—			
GAM338	LOC196758	3'	GAGAAAGAGCAGGTGAAATATT	3410		TATT
			TT AAAATATTTT CTCTTTCTC			
			TTTTATAAAG GAGAAAGAG			
			TGGAC			
GAM338	LOC219790	3'	GAGAATAAAAATAATTTA	3520	A	
			TAAA TATTTTATTCTC			
			ATTT ATAAAATAAGAG			
			A			
GAM339	CAPN2	3'	AAAACTTTATGAACCTCACCA	855	A	— AAA
			TG TGGAGT CGTAA AGTTT			

AC ACTTCA GTATT TCAAAA
 C A __
 GAM339 DAAM2 3' AAAATTTCTAAACTCCATC 3559 CG A
 A TGATGGAGT TA AAAAGTTT
 ||||| || |||||
 ACTACCTCA AT TTTTAAAA
 AA C

GAM339 SELE 3' AAAACTCTCCTACACTCCATT 747 _ C AAAA
 A TGATGGA GT GTA AGTTTT
 ||||| || ||| |||||
 ATTACCT CA CAT TCAAAA
 T _ CCTC

GAM339 KIAA0475 3' AAAACCTTGCATTCCATCA 1570 C AAAA
 TGATGGAGT GTAA GTTTT
 ||||| ||||| |||||
 ACTACCTTA CGTT CAAAA
 _ C__

GAM339 LOC222671 5' GCTTCTACGACTCCGCCA 3582 A AAA
 TG TGGAGTCGTA AAGT
 || ||||||| |||||
 AC GCCTCAGCAT TTGCG
 C C__

GAM339 LOC254901 5' AATTCTTCACTGACTCCACCA 3699 A _ A A
 TG TGGAGTC GT AA AAGTT
 || ||||| || |||||
 AC ACCTCAG CA TT TTTAA
 C T C C

GAM339 LOC257615 5' GCTTCTACGACTCCGCCA 3749 A AAA
 TG TGGAGTCGTA AAGT
 || ||||||| |||||
 AC GCCTCAGCAT TTGCG
 C C__

GAM340 ADCY6 3' TTGTACAATATTTGTACAAAG 1617 G TTCAC
 A TCTTG TACAAAT ACAAA
 ||||| ||||||| |||||
 AGAAAC ATGTTTTA TGTT
 _ TAACA

GAM340 ADCY6 3' TTGTACAATATTTGTACAAAG 1933 G TTCAC
 A TCTTG TACAAAT ACAAA
 ||||| ||||||| |||||
 AGAAAC ATGTTTTA TGTT
 _ TAACA

GAM340 APBB2 5' TGAGCTTGATACCAAAGA 2946 AT
 TCTTGTTACAAA TTCA
 ||||||| |||||
 AGAAACCATGTTT GAGT
 C_

GAM340 ATP8B2 3' TGATTTTATACCAAAGA 2716 C TT
 TCTTGTTA AAAA TCA
 ||||| ||||| |||||

		AGAAACCAT TTTT AGT	
		A T_	
GAM340	CEACAM1	3' TGTGTGAACTAGCAAAGA 848	G CAAAAT
		TCTTG TA TTCACACA	
		AGAAC AT AAGTGTGT	
		G C_____	
GAM340	CHST1	3' TGTGATATTCTTGTGCCAAA 1046	____ T
		TTTGGTACAAA AT TCACA	
		AAACCGTGT TT TA AGTGT	
		CTT T	
GAM340	FBXL7	3' TGCGTGTTCACCAAGA 1425	AC TTT A
		TCTTG GT AAAA CAC CA	
		AGAAACCA TTTT GTG GT	
		CC ____ C	
GAM340	HOXC9	3' TGCAGATTTGTAC 2592	_ A
		GTACAAAATTT CAC CA	
		CATGTTTAGA GTG GT	
		C C	
GAM340	IGF1	3' TGTGGCATTGTACAAA 763	ATT
		TTTGGTACAAA TCACA	
		AAACCATGTTT GGTGT	
		AC_	
GAM340	ITGAL	3' TGTGAAATTCTGTCCAAA 907	T A
		TTTGG ACA AATTCACA	
		AAACC TGT TTAAAGTGT	
		_ C	
GAM340	LBR	3' TGTACTGGATTGCACCAAGGA 2522	A AAT C_
		TCTTG GT CAA TTCA ACA	
		AGGAACCA GTT AGGT TGT	
		C ____ CA	
GAM340	MIP	3' TGTGTGAAATCTTCAAG 1399	TACAAA
		TTTGG ATTTCACACA	
		GAACT TAAAGTGTGT	
		TTC____	
GAM340	RLN2	3' TGTTGGTTGTACCAAAGA 1175	AATT C
		TTTGGTACAA TCA ACA	
		AAACCATGTT GGT TGT	

GAM340	SART2	3' TGATTTCATACCAAAGA 1444	CA TT
		TCTTG GTA AAA TCA	

		AGAAACCAT TTT AGT	
		AC T_	
GAM340	TPK1	3' AAATTTGCTACCAAAGA 1987	-
		TCTTGGA CAAAATT	
		AGAAACCAT GTTTAAA	
		C	
GAM340	TRIP12	3' TGTGTGAAATTAAAAAGG 1094	GGTACA
		TCTTT AAATTCACACA	
		GGAAA TTTAAAGTGTGT	
		AAA_	
GAM340	BRD3	3' GTGTGAGATTGTACCGAAGA 1398	AA
		TCTTGATACAC	
		AGAACCATG TTAGAGTGTG	
		C_	
GAM340	FLJ13397	3' GTGTGAAATTACTAGCAAA 2116	G CA
		TTTG TA AAATTCACAC	
		AAAC AT TTTAAAGTGTG	
		G CA	
GAM340	FLJ22202	3' TGTATCATTGTACCAAA 2103	TTC
		TTTGGTACAAAT ACA	
		AAACCATGTTTA TGT	
		CTA	
GAM340	GROS1	3' TGTGTAGACAACCAAAGA 1986	ACAAAATT _
		TCTTGTT TC ACACA	
		AGAAACCA AG TGTGT	
		AC _____ A	
GAM340	KIAA0981	3' TGTGTAAACTGCCAAGGA 2598	CAAAA C
		TCTTGGA TTT ACACA	
		AGGAACCGT AAA TGTGT	
		C _____ A	
GAM340	KIAA1243	3' TGTGACATGACCAAAGA 2978	A AAATT
		TCTTGGA CA TCACA	
		AGAAACCA GT AGTGT	
		_ AC _____	
GAM340	KIAA1462	3' TTGTGTGAGAGGAACCCAAAGA 3524	TACAAAA
		TCTTGGA TTTCACACAA	
		AGAAACC AGAGTGTGTT	
		CAAGG_	
GAM340	MGC1136	3' TTGTGTGAAACCCCTAGCATAG 2041	T G CAAAA
		A TCT TG TA TTTCACACAA	

AGA AC AT AAAGTGTGTT
 T G CCCC_

GAM340 MSTP043 3' TGTCTTTATTTTACCAAAGA 2223 C TTC_

TCTTGGA AAAAT ACA
 ||||| |||| |||||
 AGAAACCAT TTTTA TGT
 - TTTC

GAM340 Nup43 3' TGTGCAAAATTAGTATCAGA 2075 - CA

TTTGGTAC AAAATT CACA
 ||||| |||| |||||
 AGACTATG TTTAAA GTGT
 A AC

GAM340 RPS6KA4 3' TGTGCAATTACGTCCACCAAAG 1072 — AA T

A TCTTGGA AC AATT CACA
 ||||| || |||| |||||
 AGAAACCA TG TTAA GTGT
 CC CA C

GAM340 SLC17A6 3' TGAAACTTGTGCCACAGA 1911 T AA

TCT TGGTACAA TTTCA
 ||||| ||||| |||||
 AGA ACCGTGTT AAAGT
 C C_

GAM340 TERA 3' TGTATGAATAGTACCAAAG 1949 AAAAT C

CTTGGTAC TTCA ACA
 ||||| ||||| |||||
 GAAACCATG AAGT TGT
 AT__ A

GAM340 VAV3 3' TTGTGTAGAGTTCTAACCAA 1273 CAA_ TC

AGA TCTTGGA AATT ACACAA
 ||||| |||| |||||
 AGAAACCAT TTGA TGTGTT
 AATC GA

GAM340 LOC120892 3' TGCAATTTTTTACCAAAGA 2987 C__ T

TCTTGGA AAAATT CA
 ||||| ||||| |||||
 AGAAACCAT TTTAA GT
 TTT C

GAM340 LOC155434 3' TTGTGTGATTCGTACCAA 3376 A TT

TTTGGTAC AAA TCACACAA
 ||||| ||||| |||||
 AAACCATG TTT AGTGTGTT
 C __

GAM340 LOC169966 3' ATTTTGCCTTACCAAAGA 3252 —

TCTTGGA CAAAAT
 ||||| |||||
 AGAAACCAT GTTTA
 TTCC

GAM340 LOC221272 3' TGTCTGCTCTGTACCAAGAGA 3616 AAATTT C

TCTTGGA CA ACA
 ||||| |||||

AGAGACCATGT GT TGT
CTC C
GAM340 LOC221968 3' TTGTGTGAAATTTGTCGAA 3569 GT
TTTG ACAAAATTCACACAA
|||| |||||
AAGC TGTTTAAAGTGTGTT

GAM340 LOC86651 5' TTGTGTGAAAGATGTTCATAC 2830 CA —
CAAGGA CTTGGTA AAAT TTCACACAA
||||| |||||
GGAACCAT TTTG AAGTGTGTT
AC TAGA

GAM340 LOC90322 3' GAGATTCCATACTAAAGA 2632 CAA
TCTTGGTA AATTTC
||||| |||||
AGAAAATCAT TTAGAG
ACC

GAM341 MYO1E 5' ATGGAGTCCCCTCTAGGGTT 1168 ATC A A
GACC GA GG GACTCCAT
||| || |||||
TTGG CT CC CTGAGGTA
GAT C _

GAM341 ROCK2 3' ATGAAGTCTTTAACAGTCTC 2737 CATCGA C
GAGAC AGGAGACT CAT
||||| ||||| |||
CTCTG TTTCTGA GTA
ACAA_ A

GAM341 MGC15937 5' GAGTTCTTCAAGGTCTCA 2383 ATC —
TGAGACC GAAGGAGA CTC
||||| ||||| |||
ACTCTGG CTTCTTCT GAG
AA_ TT

GAM341 STK16 5' GAGCTCTCGGTAGCCTCA 2937 ACC G A
TGAG ATCGAAG AG CTC
||| ||||| |||||
ACTC TGGCTTC TC GAG
CGA _ —

GAM341 LOC148029 5' GGAGTCTCCATCCTCA 3116 ACCATC A
TGAG GA GGAGACTCC
||| || |||||
ACTC CT CCTCTGAGG
_ A

GAM341 LOC169436 5' TGGAGTTCAATGAGCTCA 3261 AC C AGGAG
TGAG CAT GA ACTCCA
||| ||| || |||||
ACTC GTA CT TGAGGT
GA A _

GAM341 LOC256267 3' ATGGAGTCTCCCTCTGTC 3713 CATC A
GAC GA GGAGACTCCAT
||| || |||||

CTG CT CCTCTGAGGTA
T__ C
GAM341 LOC257426 3' GAGTCCTTCGGTGGCCTCA 2755 A GA
TGAG CCATCGAAGGA CTC
||| ||||| |||
ACTC GGTGGCTTCCT GAG
C
GAM341 LOC92466 3' ATGGAGTCTCCCTGTGC 2858 CATC A
GAC GA GGAGACTCCAT
||| |||||
CTG CT CCTCTGAGGTA
T__ C
GAM342 MME 3' AAAAAAAAGTTACAGAAATA 785 AA
TATTTTGTA ACTTTTTT
||||||| |||||
ATAAAGACAT TGAAAAAAA

GAM342 MME 3' AAAAAAAAGTTACAGAAATA 1377 AA
TATTTTGTA ACTTTTTT
||||||| |||||
ATAAAGACAT TGAAAAAAA

GAM342 MME 3' AAAAAAAAGTTACAGAAATA 1378 AA
TATTTTGTA ACTTTTTT
||||||| |||||
ATAAAGACAT TGAAAAAAA

GAM342 MME 3' AAAAAAAAGTTACAGAAATA 1379 AA
TATTTTGTA ACTTTTTT
||||||| |||||
ATAAAGACAT TGAAAAAAA

GAM342 DKFZP434C212 3' AAAAAGTACACAGAAATATT 2832 AAA
AATATTTTGT ACTTTTT
||||||| |||||
TTATAAAGACA TGAAAAA
CA_
GAM342 FLJ11275 3' TAAAATGGGATTTATAAAAATA 1821 A TT
TT AATATTTTGTAAA CT TTTTA
||||||| || |||||
TTATAAAAATATT GG AAAAT
A GT
GAM342 GOLPH3 3' TAAAAAAAAGTTTACTGCCATA 1981 TTTT
TT AATAT GTAAAACTTTTTTA
||||| |||||||||||
TTATA CATTGAAAAAAAT
CCGT
GAM342 KIAA0563 5' TAAAAAAAAGGAGCAAAAGTAT 1565 AAAA
ATATTTTGT CTTTTTTA
||||||| |||||

TATGAAAACG GAAAAAAAT
AG__
GAM342 TAF2 3' AGAAAGTTGACAAAAATA 997 A
TATTTTGTA AACCTTTT
||||||| |||||
ATAAAAACA TTTGAAAGA
G
GAM342 LOC147071 5' TAAAAAAAGGAGCAAAAGTAT 2965 AAAAA
ATATTTTGTA CTTTTTTA
||||||| |||||
TATGAAAACG GAAAAAAAT
AG__
GAM342 LOC147639 5' AAAAGTGCTGCAAAATATT 3110 AA
AATATTTTGTA ACTTTT
||||||| |||||
TTATAAAAACGT TGAAAA
CG
GAM342 LOC201173 5' TAAAAAAAGGAGCAAAAGTAT 3405 AAAAA
ATATTTTGTA CTTTTTTA
||||||| |||||
TATGAAAACG GAAAAAAAT
AG__
GAM342 LOC201220 5' TAAAAAAAGGAGCAAAAGTAT 3406 AAAAA
ATATTTTGTA CTTTTTTA
||||||| |||||
TATGAAAACG GAAAAAAAT
AG__
GAM343 MME 3' AAAAAAAAGTTACAGAAATA 785 AA
TATTTTGTA ACTTTTTT
||||||| |||||
ATAAAGACAT TGAAAAAAA

GAM343 MME 3' AAAAAAAAGTTACAGAAATA 1377 AA
TATTTTGTA ACTTTTTT
||||||| |||||
ATAAAGACAT TGAAAAAAA

GAM343 MME 3' AAAAAAAAGTTACAGAAATA 1378 AA
TATTTTGTA ACTTTTTT
||||||| |||||
ATAAAGACAT TGAAAAAAA

GAM343 MME 3' AAAAAAAAGTTACAGAAATA 1379 AA
TATTTTGTA ACTTTTTT
||||||| |||||
ATAAAGACAT TGAAAAAAA

GAM343 DKFZP434C212 3' AAAAAGTACACAGAAATATT 2832 AAA
AATATTTTGTA ACTTTTT
||||||| |||||

TTATAAAGACA TGAAAAAA
CA_

GAM343 FLJ11275 3' TAAAATGGGATTATAAAAATA 1821 A TT
TT AATATTTTGTAACCTTTA
|||||| |||||
TTATAAAAATATT GG AAAAT
A GT

GAM343 GOLPH3 3' TAAAAAAAGTTTACTGCCATA 1981 TTTT
TT AATAT GTAAAACTTTTTTA
|||| |||||||||
TTATA CATTGTAAAAAAAT
CCGT

GAM343 KIAA0563 5' TAAAAAAAGGAGCAAAAGTAT 1565 AAAAA
ATATTTTGT CTTTTTTA
|||||| |||||
TATGAAAACG GAAAAAAAT
AG_

GAM343 TAF2 3' AGAAAGTTGACAAAATA 997 A
TATTTTGT AAACTTTT
|||||| |||||
ATAAAAACA TTTGAAAGA
G

GAM343 LOC147071 5' TAAAAAAAGGAGCAAAAGTAT 2965 AAAAA
ATATTTTGT CTTTTTTA
|||||| |||||
TATGAAAACG GAAAAAAAT
AG_

GAM343 LOC147639 5' AAAAGTGTGCAAAATATT 3110 AA
AATATTTTGT ACTTTT
|||||| |||||
TTATAAAAACGT TGAAAA
CG

GAM343 LOC201173 5' TAAAAAAAGGAGCAAAAGTAT 3405 AAAAA
ATATTTTGT CTTTTTTA
|||||| |||||
TATGAAAACG GAAAAAAAT
AG_

GAM343 LOC201220 5' TAAAAAAAGGAGCAAAAGTAT 3406 AAAAA
ATATTTTGT CTTTTTTA
|||||| |||||
TATGAAAACG GAAAAAAAT
AG_

GAM344 MARK1 3' TATAATAAAACATGATTGCTTA 1857 TA TAC
A TTA CGATC GTTTTATTATA
||| |||| |||||||
AAT GTTAG CAAAATAATAT
TC TA_

GAM345 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
TCAGAAAG AGGTT TATTTT
|||||| |||||

AGTCTTTT TTCTGA ATAAAAA
A TC_
GAM345 KERA 3' AAAATATTGAATGCTTCT 1349 AG
AGAAAG GTTTAATATTTT
||||| |||||||||
TCTTTC TAAGTTATAAAA
G_
GAM345 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
|||||| || |||||
GGTCTTTCT CA ATAAAAA
A TC_
GAM345 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
GAAAGAGGTTT ATTTT
||||||| |||||
CTTCTCCAAA TAAAAA
AGT
GAM345 DKFZP564I0422 3' AAAATATTGCATTCTTGAT 2196 A GTT
ATCAGAA GAG TAATATTTT
||||||| |||||||
TAGTCTT CTT GTTATAAAA
_ AC_
GAM345 EML4 3' AAAATGTTCCCTCTTCT 1876 TTT
AGAAAGAGG AATATTTT
||||||| |||||
TCTTCTCC TTGTAAAA
T__
GAM345 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTTT
||||||| |||||||
TAGTC TCTC TTATAAAA
CG ATT_
GAM345 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
GAAAGAGGT TATTTT
||||||| |||||
CTTCTCCA GTAAAAA
TG__
GAM345 SEMA3E 5' AAAATACAGCTTCTTCCTGA 1431 A TAA
TCAG AAGAGGTT TATTTT
||||||| |||||
AGTC TTCTTCGA ATAAAAA
C C__
GAM345 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
CAGAAAG TTTAATATTTT
||||| |||||||||
GTCTTTC GAATTATAAAA
AATA
GAM345 LOC148145 5' AAAATATTAACCTGGACCTGA 3296 AAAG
T ATCAG AGGTTAATATTTT
||||| |||||||||

TAGTC TCCAAATTATAAAAA
CAGG

GAM346 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
TCAGAAAG AGGTT TATTTT
|||||| |||||
AGTCTTTT TTCGA ATAAAAA
A TC_

GAM346 KERA 3' AAAATATTGAATGCTTCT 1349 AG
AGAAAG GTTTAATATTTT
||||| |||||||
TCTTTC TAAGTTATAAAA
G_

GAM346 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
|||||| || |||||
GGTCTTCT CA ATAAAAA
A TC_

GAM346 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
GAAAGAGGTTT ATTTT
||||||| |||||
CTTTCTCCAAA TAAAAA
AGT

GAM346 DKFZP564I0422 3' AAAATATTGCATTCTCTGAT 2196 A GTT
ATCAGAA GAG TAATATTTT
||||||| |||||||
TAGTCTT CTT GTTATAAAA
_ AC_

GAM346 EML4 3' AAAATGTTCTCTTTCT 1876 TTT
AGAAAGAGG AATATTTT
||||||| |||||||
TCTTCTCC TTGTAAAA
T_

GAM346 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTTT
||||| |||||
TAGTC TCTC TTATAAAA
CG ATT_

GAM346 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
GAAAGAGGT TATTTT
||||||| |||||
CTTTCTCCA GTAAAAA
TG_

GAM346 SEMA3E 5' AAAATACAGCTTCTTCCTGA 1431 A TAA
TCAG AAGAGGTT TATTTT
||||||| |||||
AGTC TTCTTCGA ATAAAAA
C C_

GAM346 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
CAGAAAG TTTAATATTTT
||||| |||||||||

GTCTTTC GAATTATAAAA
AATA
GAM346 LOC148145 5' AAAATATTAAACCTGGACCTGA 3296 AAAG
T ATCAG AGGTTAACATTTT
||||| |||||||||
TAGTC TCCAAATTATAAAA
CAGG

GAM347 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
TCAGAAAG AGGTT TATTTT
||||| |||||
AGTCTTTT TTCTGA ATAAAAA
A TC_
GAM347 KERA 3' AAAATATTGAATGCTTCT 1349 AG
AGAAAG GTTTAACATTTT
||||| |||||||
TCTTTC TAAGTTATAAAA
G_
GAM347 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
|||||| || |||||
GGTCTTCT CA ATAAAAA
A TC_
GAM347 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
GAAAGAGGTTT ATTTT
||||||| |||||
CTTCTCCAAA TAAAAA
AGT
GAM347 DKFZP564I0422 3' AAAATATTGCATTCTTGAT 2196 A GTT
ATCAGAA GAG TAATATTTT
||||| |||||
TAGTCTT CTT GTTATAAAA
_ AC_
GAM347 EML4 3' AAAATGTTCTCTTTCT 1876 TTT
AGAAAGAGG AATATTTT
||||||| |||||
TCTTCTCC TTGTAAAAA
T_
GAM347 FLJ21657 3' AAAATATTCTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTTT
||||| |||||
TAGTC TCTC TTATAAAA
CG ATT_
GAM347 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
GAAAGAGGT TATTTT
||||||| |||||
CTTCTCCA GTAAAAA
TG_
GAM347 SEMA3E 5' AAAATACAGCTTCTTCCTGA 1431 A TAA
TCAG AAGAGGTT TATTTT
||||||| |||||

AGTC TTCTTCGA ATAAAAA
C C_
GAM347 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
CAGAAAG TTTAATATTT
|||||| |||||||||
GTCTTC GAATTATAAAA
AATA

GAM347 LOC148145 5' AAAATATTAACCTGGACCTGA 3296 AAAG
T ATCAG AGGTTAACATTTT
|||||| |||||||||
TAGTC TCCAAATTATAAAA
CAGG

GAM348 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
TCAGAAAG AGGTT TATTTT
|||||| |||||
AGTCTTTT TTCGA ATAAAAA
A TC_

GAM348 KERA 3' AAAATATTGAATGCTTCT 1349 AG
AGAAAG GTTTAACATTTT
|||||| |||||||||
TCTTTC TAAGTTATAAAA
G_

GAM348 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
|||||| || |||||
GGTCTTTCT CA ATAAAAA
A TC_

GAM348 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
GAAAGAGGTTT ATTTT
||||||| |||||
CTTTCTCCAAA TAAAAA
AGT

GAM348 DKFZP564I0422 3' AAAATATTGCATTCTTGAT 2196 A GTT
ATCAGAA GAG TAATATTTT
|||||| || |||||||
TAGTCTT CTT GTTATAAAA
_ AC_

GAM348 EML4 3' AAAATGTTCCCTCTTCT 1876 TTT
AGAAAGAGG AATATTTT
|||||| |||||||||
TCTTCTCC TTGTAAAAA
T_

GAM348 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTTT
|||||| |||||
TAGTC TCTC TTATAAAA
CG ATT_

GAM348 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
GAAAGAGGT TATTTT
|||||| |||||

CTTTCTCCA GTAAAAA
TG_

GAM348 SEMA3E 5' AAAATACAGCTTCTTCCTGA 1431 A TAA
TCAG AAGAGGTT TATTTT
||||| |||||
AGTC TTCTTCGA ATAAAAA
C C_

GAM348 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
CAGAAAG TTTAATATTTT
||||| |||||
GTCTTC GAATTATAAAA
AATA

GAM348 LOC148145 5' AAAATATTAACCTGGACCTGA 3296 AAAG
T ATCAG AGGTTAACATATTTT
||||| |||||
TAGTC TCCAAATTATAAAA
CAGG

GAM349 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
TCAGAAAG AGGTT TATTTT
||||| |||||
AGTCTTTT TTCGA ATAAAAA
A TC_

GAM349 KERA 3' AAAATATTGAATGCTTCT 1349 AG
AGAAAG GTTTAACATATTTT
||||| |||||
TCTTTC TAAGTTATAAAA
G_

GAM349 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
||||| |||||
GGTCTTCT CA ATAAAAA
A TC_

GAM349 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
GAAAGAGGTTT ATTTT
||||| |||||
CTTTCTCCAAA TAAAAA
AGT

GAM349 DKFZP564I0422 3' AAAATATTGCATTCTCTGAT 2196 A GTT
ATCAGAA GAG TAATATTTT
||||| |||||
TAGTCTT CTT GTTATAAAA
_ AC_

GAM349 EML4 3' AAAATGTTCTCTTCT 1876 TTT
AGAAAGAGG AATATTTT
||||| |||||
TCTTCTCC TTGTAAAA
T_

GAM349 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTTT
||||| |||||

TAGTC TCTC TTATAAAA
CG ATT_
GAM349 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
GAAAGAGGT TATTTT
||||||| |||||
CTTCTCCA GTAAAA
TG__
GAM349 SEMA3E 5' AAAATACAGCTTCTCCTGA 1431 A TAA
TCAG AAGAGGTT TATTTT
||||| ||||| |||||
AGTC TTCTCGA ATAAAA
C C__
GAM349 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
CAGAAAG TTTAATATTTT
||||| |||||||||
GTCTTC GAATTATAAAA
AATA
GAM349 LOC148145 5' AAAATATTAACCTGGACCTGA 3296 AAAG
T ATCAG AGGTTAACATTTT
||||| |||||||||
TAGTC TCAAATTATAAAA
CAGG
GAM350 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
TCAGAAAG AGGTT TATTTT
||||| |||||
AGTCTTTT TTCGA ATAAAA
A TC__
GAM350 KERA 3' AAAATATTGAATGCTTCT 1349 AG
AGAAAG GTTTAACATTTT
||||| |||||||||
TCTTTC TAAGTTATAAAA
G__
GAM350 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
||||||| || |||||
GGTCTTCT CA ATAAAA
A TC__
GAM350 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
GAAAGAGGTTT ATTTT
||||||| |||||
CTTCTCCAAA TAAAA
AGT
GAM350 DKFZP564I0422 3' AAAATATTGCATTCTCTGAT 2196 A GTT
ATCAGAA GAG TAATATTTT
||||||| |||||||||
TAGTCTT CTT GTTATAAAA
_ AC__
GAM350 EML4 3' AAAATGTTCTCTTCT 1876 TTT
AGAAAGAGG AATATTTT
||||||| |||||

		TCTTTCTCC	TTGTAAAA			
		T_				
GAM350	FLJ21657	3'	AAAATATTTACTCTGCCTGAT	1990	AA	GTTT
		ATCAG	AGAG	AATATTT		
		TAGTC	TCTC	TTATAAAA		
		CG	ATT_			
GAM350	KIAA1054	3'	AAAATGGTACCTCTTC	2820	TTAA	
		GAAAGAGGT	TATTTT			
		CTTTCTCCA	GTAAAA			
		TG_				
GAM350	SEMA3E	5'	AAAATACAGCTTCTTCCTGA	1431	A	TAA
		TCAG	AAGAGGTT	TATTTT		
		AGTC	TTCTTCGA	ATAAAA		
		C	C_			
GAM350	LOC130507	3'	AAAATATTAAGATAACTTCTG	3011	AGG_	
		CAGAAAG	TTTAATATTTT			
		GTCTTC	GAATTATAAAA			
		AATA				
GAM350	LOC148145	5'	AAAATATTAACCTGGACCTGA	3296	AAAG	
		T	ATCAG	AGGTTAACATTTT		
		TAGTC	TCCAAATTATAAAA			
		CAGG				
GAM351	DKK1	3'	AAAATACTAGCTTATTTCTGA	1417	_	TAA
		TCAGAAAG	AGGTT	TATTTT		
		AGTCTTTT	TTCGA	ATAAAA		
		A	TC_			
GAM351	KERA	3'	AAAATATTGAATGCTTCT	1349	AG	
		AGAAAG	TTTAATATTTT			
		TCTTC	TAAGTTATAAAA			
		G_				
GAM351	PPP1R12A	3'	AAAATACTACATCTTCTGG	931	G	TTAA
		TCAGAAAGA	GT	TATTTT		
		GGTCTTTCT	CA	ATAAAA		
		A	TC_			
GAM351	S100B	3'	AAAATTGAAAACCTCTTC	1284	AAT	
		GAAAGAGGTT	ATTTT			
		CTTCTCCAAA	TAAAA			
		AGT				
GAM351	DKFZP564I0422	3'	AAAATATTGCATTCTCTGAT	2196	A	GTT
		ATCAGAA	GAG	TAATATTTT		

TAGTCCTT CTT GTTATAAAA
_ AC_
GAM351 EML4 3' AAAATGTTCTCTTTCT 1876 TTT
AGAAAGAGGG AATATTTT
||||||| |||||
TCTTTCTCC TTGTAAAAA
T__
GAM351 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTTT
||||| |||||
TAGTC TCTC TTATAAAA
CG ATT_
GAM351 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
GAAAGAGGT TATTTT
||||||| |||||
CTTTCTCCA GTAAAAA
TG__
GAM351 SEMA3E 5' AAAATACAGCTTCTTCCTGA 1431 A TAA
TCAG AAGAGGGTT TATTTT
||||| |||||
AGTC TTCTTCGA ATAAAAA
C C__
GAM351 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
CAGAAAG TTTAATATTTT
||||| |||||
GTCTTC GAATTATAAAA
AATA
GAM351 LOC148145 5' AAAATATTAACCTGGACCTGA 3296 AAAG
T ATCAG AGGTTAACATTTT
||||| |||||
TAGTC TCCAAATTATAAAA
CAGG
GAM352 DKK1 3' AAAATACTAGCTTATTTCTGA 1417 _ TAA
TCAGAAAG AGGTT TATTTT
||||| |||||
AGTCTTT TTCGA ATAAAAA
A TC__
GAM352 KERA 3' AAAATATTGAATGCTTTCT 1349 AG
AGAAAG GTTTAATATTTT
||||| |||||
TCTTTC TAAGTTATAAAA
G__
GAM352 PPP1R12A 3' AAAATACTACATCTTCTGG 931 G TTAA
TCAGAAAGA GT TATTTT
||||||| |||
GGTCTTTCT CA ATAAAAA
A TC__
GAM352 S100B 3' AAAATTGAAAACCTCTTC 1284 AAT
GAAAGAGGGTTT ATTTT
||||||| |||||

CTTTCTCCAAA TAAAAA
AGT
GAM352 DKFZP564I0422 3' AAAATATTGCATTCTTGAT 2196 A GTT
ATCAGAA GAG TAATATTT
|||||| |||||||
TAGTCTT CTT GTTATAAAA
_ AC_
GAM352 EML4 3' AAAATGTTCCCTCTTCT 1876 TTT
AGAAAGAGG AATATTT
|||||| |||||||
TCTTCCTCC TTGTAAAA
T__
GAM352 FLJ21657 3' AAAATATTTACTCTGCCTGAT 1990 AA GTTT
ATCAG AGAG AATATTT
|||||| |||||||
TAGTC TCTC TTATAAAA
CG ATT_
GAM352 KIAA1054 3' AAAATGGTACCTCTTC 2820 TTAA
GAAAGAGGT TATTTT
|||||| |||||
CTTTCTCCA GTAAAA
TG__
GAM352 SEMA3E 5' AAAATACAGCTTCTTCGA 1431 A TAA
TCAG AAGAGGTT TATTTT
|||||| |||||
AGTC TTCTTCGA ATAAAA
C C__
GAM352 LOC130507 3' AAAATATTAAGATAACTTCTG 3011 AGG_
CAGAAAG TTTAATATTTT
|||||| |||||||
GTCTTC GAATTATAAAA
AATA
GAM352 LOC148145 5' AAAATATTAACCTGGACCTGA 3296 AAAG
T ATCAG AGGTTAATATTTT
|||||| |||||||
TAGTC TCCAAATTATAAAA
CAGG
GAM353 EFG1 3' TGTCTATCTCAACTCTATT 3661 ATC TC
AATAGAGTT GAT AGACA
|||||| |||||
TTATCTCAA CTA TCTGT
CT_ __
GAM353 PHYH 3' TCTGCTATAACTCTTCA 1281 T CGATT
TGAA AGAGTTAT CAGA
|||||| |||||
ACTT TCTCAATA GTCT
_ TC__
GAM353 SLC6A3 3' TGTCTGTTGACCAATCTCTATT 795 TTA_ TT
CA TGAATAGAG TCGA CAGACA
|||||| |||||

		ACTTATCTC AGTT GTCTGT TAACC —	
GAM353	H2AV	3' TGCCTGACAATTAGCTCTATT 2447	TCGAT A
	A	TGAATAGAGTTA TCAG CA 	
		ACTTATCTCGAT AGTC GT TAAC_ C	
GAM353	HMP19	3' GTCTGAACCGATATTTCT 3408	T A
		AGAG TATCG TTCAGAC 	
		TCTT ATAGC AAGTCTG T C	
GAM353	KIAA1726	3' TGTCTGAAAGCAACCCCTACTC 2786	A A ATCGA
		GA TAG GTT TTCAGACA 	
		CT ATC CAA AAGTCTGT C C CGA_	
GAM354	SOX11	3' GTCTCACTGTTGATCAAAC 992	A ATTTTT
	CT	AGAGGTTT AT GTGAGAC 	
		TCTTCAAA TA CACTCTG C GTTTGT	
GAM354	CAP350	3' TCTTGTAATAGTTAACCTC 1554	ATTT TG
		GAGGTTTAAT TTG AGA 	
		CTCCAAATTG AAT TCT AT_ GT	
GAM354	DKFZP564A022	3' TCTCACAAATATAAAACC 2174	A TT
		GGTTT ATATT TGTGAGA 	
		CCAAA TATAA ACAC TCT A —	
GAM354	FLJ11730	3' CTCACAAAGATAAACATC 2005	G TAA
		GA GTT TATTTTGAG 	
		CT CAA ATAGAACACTC A —	
GAM354	FLJ20686	5' CTCACAGTCCTACTGAACCTC 1765	A TTT
		GAGGTTTA TA TTGTGAG 	
		CTCCAAGT AT GACACTC C CCT	
GAM354	FRSB	3' GTCCCAGGGAGATATTAGACCT 1236	G A
	CT	AGAGGTTTAATATTTTGAC 	
		TCTCCAGATTAGAGG AC CTG G C	
GAM354	KIAA1600	3' ACAAAAAGACTAACCTCT 2919	ATA
		AGAGGTTTA TTTTGT 	

		TCTCCAAAT	AAAAACA		
		CAG			
GAM354	LOC124801 3'	GTCTCACATTGGGCCAACCT	2996	AATATTTT	
	C	GAGGTTT	TGTGAGAC		
		CTCCAAA	ACACTCTG		
		CCCGGTTT			
GAM354	LOC221035 3'	TCCCAGTATTAAACCT	3593	TTTG A	
		AGGTTAATAT	TG GA		
		TCCAAATTATG	AC CT		
		— C			
GAM354	LOC51611 3'	CGAAAATTAAACCTCT	1653	AT	
		AGAGGTTTAAT	TTTG		
		TCTCCAAATTAA	AAAGC		
		—			
GAM355	AXUD1 3'	TTTATTCCATTTCCTCT	2309	GA	
		AGAGAGAAA	GAATAAA		
		TCTCTCTTT	CTTATTT		
		AC			
GAM355	BSN 3'	ATTTTCTTTGTTCTCT	1024	G T	
		AGAGAGAAA	AGAA AAAAT		
		TCTCTCTTT	TTTT TTTTTA		
		G C			
GAM355	DPYSL2 3'	AATATTTCGTGTCTCTC	822	A GA TA	
	T	AGAGAGA AGA A	AAAATATT		
		TCTCTCT TCT T	TTTTATAAA		
		G G_GC			
GAM355	EVA1 3'	AATGTGTTACTCTTTCCCT	1250	A A A	
	C	GAG GAAAGAGA	TAAA ATATT		
		CTT CTTCTCT	ATTT TGTAA		
		C C G			
GAM355	PTMS 3'	TTTGCTCTCTTCTCCCT	959	A A	
		AG GAGAAAGAGA	TAAA		
		TC CTCTTCTCT	GT		
		C C			
GAM355	SELE 3'	TTTGTGGCTTCTTCT	748	AGA	
		AGAGAGAAAG	ATAAAA		
		TCTTCTTTC	TGTTTT		
		GG_			
GAM355	SLC7A6 3'	AATATTTTGTACCTTCTCCT	1076	A AGA	
		AG GAGAAAG	ATAAAAATATT		

TC CTCTTTC TGTTTTATAA
— CA_

GAM355 TGFBR2 5' TTTCTCTAGTTCTTCT 1003 AG T
AGAGAGAA AGAA AAA
|||||| |||||
TCTTCTT TCTT TTT
GA C

GAM355 DKFZP586N0721 5' TTTTATTCCCTTCCTCT 1627 A A
AGAG GAAAG GAATAAAA
|||||| |||||
TCTC CTTTC CTTATTT
— C

GAM355 DKFZp761J139 5' TTTATTCTCTGTCTCT 2242 GAA
AGAGA AGAGAATAAA
|||||| |||||
TCTCT TCTCTTATTT
GTC

GAM355 FLJ10468 3' TTTTATTCTCCTTTC 1779 AAA
GAGAG GAGAATAAAA
|||||| |||||
CTTTC CTCTTATTT

GAM355 FLJ20485 3' AATATTTTAAAATCTCCTTTC 1874 AAA A_—
T AGAGAG GAGA TAAAAATATT
|||||| |||||
TCTTTC CTCT ATTATTTATAA
— AAA

GAM355 H2BFQ 3' ATATTTACTCTTCTGTC 2523 G AATAA
GA AGAAAGAG AAATAT
|| ||||| |||||
CT TCTTCTC TTTATA
G A_—

GAM355 KIAA0077 3' TTTTATTCTCTCTCCCTT 2774 A A
AGAG GA AGAGAATAAAA
|||||| |||||
TTTC CT TCTCTTATTT
C C

GAM355 KIAA0295 3' TTTTTCCCTTCTCTCT 2807 A T
AGAGAGAAAG GAA AAA
|||||| |||||
TCTCTCTT CTT TTT
C T

GAM355 KIAA0828 3' AATATTTGCCTCTTCTTCTT 3195 AATA
T AGAGAGAAAGAG AAAATATT
|||||| |||||
TCTTCTTCTT TTTTATAA
CCG_

GAM355 KIAA1203 3' AATATTTTATTCTTGAGTTAT 2921 GAGAAA
CT AGA GAGAATAAAAATATT
|| |||||

TCT TTCTTATTTTATAA
ATTGAG
GAM355 OSBPL8 3' TTTTTATTATCCTCCTCTCT 1928 AAA G
AGAGAG GA AATAAAAA
|||||| |||||||||
TCTCTC CT TTATTTT
CTC A

GAM355 PAK6 3' AATATTTTAGATTCTCTGCT 1897 _ A AA
C GAG AGAA GAG TAAAAATATT
||| ||||| |||||||||
CTC TCTT CTT ATTTTATAA
G _ AG

GAM355 POLR3F 3' AATATTTCACTGTTCCCTTCTT 2547 AA ____
TCT AGAGAGAA G GAATA AAAATATT
|||||| | ||||| |||||||||
TCTTCTT C CTTGT TTTTATAA
__ CAC

GAM355 RNF11 3' TTTATTCTCTTCTTCT 1495 G
AGA AGAAAGAGAATAAA
||| |||||||||
TCT TCTTCTTCTTATT

GAM355 SLC16A6 5' TTTATTCTCTTCCCTTCT 1143 AGA
AGAG AAGAGAATAAA
||| |||||||||
TCTT TTCTCTTATT
CCC

GAM355 LOC144321 3' TTTTATTCCCTTCTCTC 3267 AA
GAGAGAA G GAATAAAA
|||||| | |||||
CTCTCTT C CTTATT
_ C

GAM355 LOC150951 5' ATATTTTATTTCTTCCT 3336 A
AG AAGAGAATAAAAATAT
||| |||||||||
TC TTCTTTATTTTATA
C

GAM355 LOC199920 5' AATATTTTATTCTTGATTCT 3435 AA
T GAGAG AGAGAATAAAAATATT
||| |||||||||
TTCTT TTTCTTATTTTATAA
AG

GAM355 LOC256435 3' AATATTTAAATGTTGTCTCT 3675 AAGAGAA
CT AGAGAGA TAAAATATT
|||||| | |||||||||
TCTCTCT ATT TTATAA
GTTGTAA

GAM356 ADAMTS5 3' TATTTCACAACTACTTCTCT 1352 _ AATA_
CT AGAGAGAAAG AG AAAATA
||||||| || |||||

TCTCTCTTTC TC TTTTAT
 A AACAC
 GAM356 ADAT1 3' TATTCCCAGCCTTCTTCTTC 1404 A_____
 GAAGAGAGAAAG GAATA
 ||||||| |||||
 CTTCTTCTTTC CTTAT
 CGACC
 GAM356 ADCY2 3' TTTTATTTCCGTCTTC 2711 G AAA
 GAAGA AG GAGAATAAAA
 ||||| || |||||
 CTTCT TC CTTTTATTT
 G ____
 GAM356 AHR 3' ATTTTTGTTACTCTCTTC 840 _ A
 GAAGAGAG AA GAGAAT
 ||||| || |||||
 CTTCTCTC TT TTTTTA
 A G
 GAM356 BSN 3' ATTTTTCTTTGTTCTCTCT 1025 G T
 AGAGAGAAA AGAA AAAAAT
 ||||| || |||||
 TCTCTCTT TTTT TTTTTA
 G C
 GAM356 BSN 3' TCTCCCCCTTCTCTCTTC 1026 _____
 GAAGAGAGAAA GAGA
 ||||||| |||||
 CTTCTCTCTT CTCT
 CCCC
 GAM356 C7 3' TATTCCCTTATTTCTCTTT 756 _ A
 GAAGAGAGA AAG GAATA
 ||||| || |||||
 TTTCTCTTT TTC CTTAT
 A ____
 GAM356 CFTR 3' TATTCCCTTTCTCTCCTC 753 A ____
 GA GAGAGAAAGAG AATA
 || ||||||| |||||
 CT CTCTCTTTTC TTAT
 C C
 GAM356 CHD2 3' ATATTTTTCTGATCCCCCACT 813 AA____ GAAT_ III
 CTCTCTTC AGA GA AAAAATA T
 ||| || ||||| |
 TCT CT TTTTTAT A
 CACCCC AGTCT |||
 GAM356 CKN1 3' TATTTTATTCTTCTTC 703 AG
 GAAGAGAGAA AGAATA
 ||||| |||||
 CTTCTTTCTT TTTTAT
 A_____
 GAM356 CTH 5' TGTTCTTTCCCTCTCTTC 867 A
 GAAGAGAG AAGAGAATA
 ||||| |||||_____

CTTCTCTC TTTTCTTGT
C
GAM356 EVA1 3' ATTTTTATTTTATGTCTCTC 1251 AA_
GAGAGA GAGAATAAAAAT
||||| |||||||||
CTCTCT TTTTATTTTA
GTA

GAM356 FBXL11 3' TTGTTCCCCCTCTCTCTT 1426 AAGA
GAAGAGAGA GAATAA
||||| |||||
TTTCTCTCT CTTGTT
CCCC

GAM356 GATA3 3' TATTTCCCTCTCTCTC 893 A A
GA GAGAGAA GAGAATA
|| ||||| |||||
CT CTCTCTT CTTTAT
— C

GAM356 GDI2 5' TTTTCCTCTCTTCTT 832 AT
GAGAGAAAGAGA AAAA
||||||| |||||
TTCTCTTCTCT TTTT
CC

GAM356 HD 3' ATTCTCCCTCTCTCTT 899 A_
GAAGAGAGAA GAGAAT
||||| |||||
TTTCTCTCTT CTCTTA
CC

GAM356 HTR2C 3' TATTTTGCTCTCCCTCCCTC 781 A AAA A
GAAG GAG GAGA TAAAAATA
||| ||| |||||
CTTC CTC CTCT GTTTTAT
C C_ C

GAM356 LGR6 3' TTCTCTTCCCCTCTCTTC 3302 A_
GAAGAGAG AAGAGAA
||||| |||||
CTTCTCTC TTCTCTT
CCC

GAM356 LRP8 3' TCTCTTATTTCTCTTTTC 2326 —
GAAGAGAGAA AGAGA
||||| |||||
CTTTCTCTT TCTCT
TAT

GAM356 LRP8 3' TCTCTTATTTCTCTTTTC 1139 —
GAAGAGAGAA AGAGA
||||| |||||
CTTTCTCTT TCTCT
TAT

GAM356 MEF2C 5' TTTTTTTCTCTCTCTCTCT 926 _ A T
C GA AGAGAGA AGAGAA AAAA
|| ||||| |||||

CT TCTCTCT TCTCTT TTTTT
C C T
GAM356 MSR1 3' TATTTTGTTTCTCTCT 929 —
AGAGAGAAA GAGAATA
||||||| |||||
TCTCTCTTT TTTTTAT
GG

GAM356 PCDH11X 3' TATTTCACATTTCTCTCT 2299 —
AGAGAGAAA GAGAATA
||||||| |||||
TCTCTCTTT CTTTTAT
TACA

GAM356 PCDH11X 3' TATTTCACATTTCTCTCT 2301 —
AGAGAGAAA GAGAATA
||||||| |||||
TCTCTCTTT CTTTTAT
TACA

GAM356 PCDH11Y 3' TATTTCACATTTCTCTCT 2303 —
AGAGAGAAA GAGAATA
||||||| |||||
TCTCTCTTT CTTTTAT
TACA

GAM356 PCMT1 3' TATCTTCTGCTCTTCTTC 1205 A_ GA
GAAGAGAGA AGA ATA
||||||| III |||
CTTCTTTCT TCT TAT
CG TC

GAM356 PCNA 3' TATTTTTCTCTATT 939 G
GAA AGAGAAAGAGAATA
||| |||||||||
CTT TCTCTTTTTTAT
A

GAM356 PRELP 3' ATTCGTTTCTCTCTCTC 950 — A
GA AGAGAGAAAG GAAT
||| |||||||||
CT TCTCTCTTT CTTA
C G

GAM356 PTMS 3' TTTGCTCTCTTCTCCCT 958 A A
AG GAGAAAGAGA TAAA
||| |||||||||
TC CTCTTTCTCT GTTT
C C

GAM356 SLC4A4 3' TATTTTATTCTCTTAAGTCTT 1054 GAGA
T GAAGA AAGAGAATAAAAATA
||||| |||||||||
TTTCT TTCTCTTATTTTAT
GAA_

GAM356 TRPS1 5' TATTCCTTCTCTTCTCTCT 1471 TAA
AGAGAGAAAGAGAA AAATA
||||||| |||||

TCTCTCTTCTCTT TTTAT
TCC

GAM356 ARS2 5' TTTTGTCGCCTCTCTTC 1650 AAAGA
GAAGAGAG GAATAAAA
|||||| |||||
CTTCTCTC CTTGTTT
CG__

GAM356 BRD4 3' TATTTTAATTCTCTCTTC 2368 A_
GAAGAGAGAA GAGAATA
|||||| |||||
CTTCTCTCTT TTTTAT
AA

GAM356 CAPN13 3' TATTTTACCTGCCTCTCTTC 2485 AA __
GAAGAGAG AG AGAATA
|||||| || |||||
CTTCTCTC TC TTTTAT
CG CA

GAM356 CECR6 3' TTACCCCTCTCCTCTCTTC 2218 AA AA
GAAGAGAG AGAG TAA
|||||| || |||||
CTTCTCTC TCTC ATT
C_ CC

GAM356 DKFZP434I0714 5' TTTTGTTTCCCCCTCTTC 3362 AGAAA
GAAGAG GAGAATAAAAAA
|||||| |||||||||
CTTCTC TTTTGTTTTT
CCCC__

GAM356 DKFZP564G092 5' TATT CCTCTTCTTTTC 1639 A A
GAAGAGAGA AG GAATA
|||||| || |||||
CTTTCTTT TC CTTAT
C _

GAM356 DKFZp564K142 3' TATCCTCTTAACCTCTCTTC 2231 A__ A
GAAGAGAG AAGAG ATA
|||||| || |||||
CTTCTCTT TTCTC TAT
CCAA C

GAM356 DKFZp566D234 3' TATTTTTCTCTGTC 2612 AG
GA AGAGAAAGAGAATA
|| |||||||||
CT TCTCTTTTTTAT
G__

GAM356 DKFZP566I1024 3' TTTTAAAATCTATTCTCTC 2878 _ GAA
GAGAGAA AGA TAAAA
|||||| || |||||
CTCTCTT TCT ATTTT
A AAA

GAM356 EPI64 3' TATTTGACATCTCTCTCTT 3681 A GAATA
C GAAGAGAGA AGA AAAATA
|||||| || |||||

CTTCTCTCT TCT TTTTAT
C ACAG_

GAM356 FLJ00012 3' TATTTTTATCTCTATCTCCT 2985 A A A
AG GAGA AGAGA TAAAAATA
|| |||| |||||
TC CTCT TCTCT ATTNTTAT
- A -

GAM356 FLJ10460 3' ATTTTTATTCTACCTTC 1778 AAAG
GAGAG AGAATAAAAAT
||||| |||||
CTTTC TCTTATTTTA
CA_

GAM356 FLJ10687 3' TTTATTCTATTCTCTCCTC 1793 A GA
GA GAGAGAAA GAATAAA
|| ||||| |||||
CT CTCTCTTT CTTATT
C A_

GAM356 FLJ10738 3' TATTTTTACTCTCCCTCTTC 1799 AGAAA A
GAAGAG GAGA TAAAAATA
||||| |||||
CTTCTC CTCT ATTNTTAT
C C

GAM356 FLJ13158 3' TTCTCTCCCTTCTCTTC 2109 A_
GAAGAGAGA AGAGAA
||||| |||||
CTTCTCTTT TCTCTT
CCC

GAM356 FLJ20294 5' TATTCCTGTCTCCTCTTT 1747 _ A A
GAAGAG AGA AG GAATA
||||| ||| |||||
TTTCTC TCT TC CTTAT
C G _

GAM356 FLJ21657 3' TATTCTACTCTCTCTTC 1991 AG
GAAGAGAGAA AGAATA
||||| |||||
CTTCTCTCTT TCTTAT
CA

GAM356 GT650 3' TATTCTGATTCTCCCTCTTT 2341 AAA AA_
C GAAGAGAG GAGAAT AAATA
||||| ||||| |||||
CTTCTCTC CTCTTA TTTAT
C GTC

GAM356 HEY2 3' TATTCTCTTTCTCTCT 1420 AG
GA AGAGAAAGAGAATA
|| |||||
CT TTTTTCTCTTTAT
CT

GAM356 HIC2 3' ATTTTTTTCTCTCTCTTTC 2717 A T
GAAGAGAGA AGAGAA AAAAAT
||||| |||||

CTTTTCTCT TCTTTT TTTTTA
 C _
 GAM356 HOOK3 3' ATTTTGAGGACTTTCTCTCT 2249 AATA_
 AGAGAGAAAGAG AAAAT
 ||||| |||||
 TCTCTCTTTTC TTTTA
 AGGAG

GAM356 IL1RAPL1 5' TATTCTTATTTCCCTCTCTT 1488 AAA A
 T GAAGAGAG GAGAATAA AATA
 ||||| ||||| |||||
 TTTCTCTC CTTTTATT TTAT
 CC_ C

GAM356 KALI 3' TTTTGTTCTTGTCCCTCTC 2347 AAA_
 GAGAG GAGAATAAAA
 ||||| |||||
 CTCTC TTCTTGTTT
 CCTG

GAM356 KIAA0077 3' TTTTATTCTCTCTCCCTT 2773 A AA
 GAAG GAGA GAGAATAAAA
 ||||| |||||
 TTTC CTCT CTCTTATT
 C _
 GAM356 KIAA0089 3' ATTTTAGCCTTTCTCTTC 2873 A AA
 GAAGAGAGAA GAG TAAAAAT
 ||||| |||||
 CTTCTCTTT CTC ATTNTTA
 _ CG

GAM356 KIAA0286 3' TATTTTCACCCCTTTTC 2814 AAA
 GAAGAGAG GAGAATA
 ||||| |||||
 CTTTTCTC CTTTTAT
 CCA

GAM356 KIAA0295 3' TTTTTCCCTTTCTCTCT 2808 A T
 AGAGAGAAAG GAA AAA
 ||||| |||||
 TCTCTCTTC CTT TTT
 C T

GAM356 KIAA0342 3' TATTCTCATTACTTCTCTTT 2890 __ A
 GAAGAGA G AA GAGAATA
 ||||| |||||
 TTTCTCT C TT CTCTTAT
 T A A

GAM356 KIAA0564 3' TATTTTTATTTCTCCCTGCTC 2743 _ AA
 GAG AG AGAGAATAAAAATA
 ||||| |||||
 CTC TC TCTTTATT
 G CC

GAM356 KIAA0630 3' TATTTTTAAAAGTCTTCTCT 3465 GAAT_
 CT AGAGAGAAAGA AAAAATA
 ||||| |||||

TCTCTCTTCTT TTTTTAT
GAM356 KIAA0662 3' TGTTCTCTCTCTCTCTT 3215 A
GAAGAGAGA AGAGAATA
||||||| |||||
TTTCTCTCT TCTCTTGT
C
GAM356 KIAA0830 3' TTTGCTTCTCTTCTCCT 2866 A -
AG GAGAAAGAGAA TAAA
||| ||||| |||||
TC CTCTTCTCTT GTTT
- C
GAM356 KIAA0964 3' ATTCTTATGTTTTCTCTTTTC 1579 GA A
GAAGAGAGAAAGA ATAA AAT
||||||| ||||| |||||
CTTTCTCTTTT TATT TTA
G_ C
GAM356 KIAA1076 3' TATTTTTGCTTCTCTC 2723 AGAAT
GAGAGAAAG AAAAATA
||||||| |||||
CTCTCTTC TTTTAT
GT__
GAM356 KIAA1181 3' ATTCCCTCTCCCTCTTC 2817 A -
GAAGAGAG AAGAG AAT
||||||| |||||
CTTCTCTC TTCTC TTA
C C
GAM356 KIAA1319 3' TATTTTGCTTCTCCCTTC 1925 A GA
GAGAG AAGA ATAAAAATA
||||||| |||||
CTTTC TTCT TGTTTTAT
C TC
GAM356 KIAA1522 3' ATTCTCTGACCTTCTCT 2708 _____
AGAGAGAA AGAGAAT
||||||| |||||
TCTCTCTT TCTCTTA
TCCAG
GAM356 KIAA1906 3' ATTTTATTCTCTGCTT 2971 AA
GAG AGAGAATAAAAAT
||| ||||| |||||
TTC TCTCTTATTTTA
G_
GAM356 MAPK6 5' TATTTTCTTCTCCCTT 952 A AG
GAAG GAGAA AGAATA
||||||| |||||
TTTC CTCTT TTTTAT
C CT
GAM356 MGC13138 3' TATTTTATTCTTGACCCCTC 2332 AGAAA_
GAG GAGAATAAAAATA
||| ||||| |||||

CTC TTCTTATTTTAT
 CCAGTG
 GAM356 MGC2742 5' TATTTCTTTCTCTCTTC 2040 AG
 GAAGAGAGAAAG AATA
 ||||||| |||||
 CTTCTCTCTTT TTAT
 CT
 GAM356 MGC32043 3' TATTCCCTGTTTCTCTTT 2486 _ A
 GAAGAGAGAA AG GAATA
 ||||||| |||||
 TTTCTCTTT TC CTTAT
 G _
 GAM356 NFAT5 3' TATTCCCTTTCTCTTC 2452 A
 GAAGAGAGAAAG GAATA
 ||||||| |||||
 CTTCTCTTTTC CTTAT
 C
 GAM356 OSBPL8 3' TTTTTATTATCCTCCTCTTC 1929 AAA G
 GAAGAGAG GA AATAAAAAA
 ||||| || |||||
 CTTCTCTC CT TTATTTT
 CTC A
 GAM356 RAB10 3' TGTTCTGCTTTCCCTCCTC 3337 A AG _
 GA GAG AAAG AGAATA
 || ||| |||||
 CT CTC TTTC TCTTGT
 C CT G
 GAM356 RANBP1 3' TATTTCTTTCCCTCTCTTT 969 _
 GAAGAGAG AAAGAGAATA
 ||||||| |||||
 TTTCTCTC TTTCTTTAT
 CT
 GAM356 RASSF2 3' TATTTCACAAATCCTCTCTTC 1537 AAA __
 GAAGAGAG GAGAATA
 ||||||| |||||
 CTTCTCTC CTTTAT
 CTAACA
 GAM356 STK22D 3' TATTTCATCAGCTTCTCTCT 2226 AG AATA __
 CT AGAGAGAA AG AAAATA
 ||||| || |||||
 TCTCTCTT TC TTTTAT
 CT GACTAC
 GAM356 SYNJ2 3' ATTTTAGGTTTCTCTTC 2606 AGAGAA
 GAAGAGAGAA TAAAAAT
 ||||||| |||||
 CTTCTCTTT ATTNTTA
 GG __
 GAM356 TBLR1 3' TATTCTTTTTCCCTTC 2079 A
 GAAG GAGAAAGAGAATA
 |||| ||||| |||||

CTTC CTTTTTTCTTAT
C
GAM356 TM9SF1 3' TATTGCTGTTCTCTCCCTTCT 1296 AA AA
TC GAAGAGAG AGAGAATA AATA
|||||| ||||| ||||
CTTCTTTC TCTCTTGT TTAT
CC CG
GAM356 ULK2 3' TATTCTATCCTCTCCTCTTC 1523 _ AAG_
GAAGAG AGA AGAATA
|||||| |||||
CTTCTC TCT TCTTAT
C CCTA
GAM356 UNC5D 3' TTATTCTTCTTCCTCTTC 2393 A _
GAAGAG GAA AGAGAATAA
|||||| |||||
CTTCTC CTT TTTCTTATT
_ C
GAM356 LOC121219 5' TTATTAACCTCTCTCTCTCTT 2988 A _
GAAGAGAGAA GAG AATAA
|||||| |||||
TTTCTCTCTT CTC TTATT
C AA
GAM356 LOC128077 3' ATTTGTTTCTCTTCTTCTT 3006 A TAA
C GA GAGAGAAAGAGAA AAAT
|| ||||| |||||
CT CTTCTTCTCTT TTTA
C TTG
GAM356 LOC143451 3' TTCTCTCCTCTCTCTTC 3058 _
GAAGAGAGAA AGAGAA
|||||| |||||
CTTCTCTCTT TCTCTT
CC
GAM356 LOC145125 3' TTCTCTCCTCTCTCTTC 3075 _
GAAGAGAGAA AGAGAA
|||||| |||||
CTTCTCTCTT TCTCTT
CC
GAM356 LOC149351 3' ATTTTCAGATCTTCTCTT 3131 GAAT
AGAGAGAAAGA AAAAAT
|||||| |||||
TTTCTCTTCTT TTTTTA
AGAC
GAM356 LOC149722 5' TATTCTTCTTCTCTTC 3312 A
GAAGAGAGA AGAGAATA
|||||| |||||
CTTCTCTTT TTTCTTAT
C
GAM356 LOC149837 5' TATTCCGTCTTCTCTCT 3318 _
AGAGAGAAAGA GAATA
|||||| |||||

TCTCTCTTCT CTTAT
GAM356 LOC150054 3' TATTCTGTCTTCTCCTC 3323 — —
GTC
GAG AGAAAGA GAATA
||| ||||| |||||
CTC TCTTCT CTTAT
C GT

GAM356 LOC150150 5' TTTTGTGCCTCTCTTCTTC 3324 AA A_
GAAGAGAGA GAG ATAAAAA
||||||| ||| |||||
CTTCTTCT CTC TGTTTT
— CG

GAM356 LOC150225 3' TATTTTGTTCCCTCTTC 3327 A G
GAAGAG GAAA AGAATA
||||| ||||| |||||
CTTCTC CTTT TTTTAT
C G

GAM356 LOC152816 3' TATTTTATCCTAACCTCTT 3364 AAA A
GAGAG GAG ATAAAAATA
||||| ||| |||||
TTCTC CTC TATTTTAT
CAA C

GAM356 LOC155038 3' ATTGCGTTCTCTTCTCCTTC 3198 A TAAA
GAAG GAGAAAGAGAA AAT
||||| ||||| |||
CTTC CTCTTCTCTT TTA
— TGCG

GAM356 LOC158629 3' TATTTCTTCCCTCTC 3394 A A
GA GAG GAAAGAGAATA
||| ||||| |||||
CT CTC CTTCTTTAT
— C

GAM356 LOC158943 3' TATTTCTTTCCCTCTCTT 2572 —
GAAGAGAG AAAGAGAATA
||||| |||||
TTTCTCTC TTTCTTTAT
CT

GAM356 LOC170082 3' ATTCTTTCCCCCTCTCTTC 3254 —
GAAGAGAGA AAGAGAAT
||||| |||||
CTTTCTCT TTTCTTA
CCCC

GAM356 LOC199920 5' TATTTTATTCTTGTATTCTTC 3436 AGAA
GAAGAG AGAGAATAAAAATA
||||| ||||| |||||
CTTCTT TTTCTTATTTTAT
AG_

GAM356 LOC219667 3' ATTTTGTTATCTCTCTTC 3516 AAGAG
GAAGAGAGA AATAAAAAT
||||| |||||

	CTTCTCTCT	TTGTTTTA	
	A_____		
GAM356	LOC220279 5' TATTTCTCCCTACCTCTCT 3653	A_____	
	TC	GAAGAGAG	AAGAGAATA
	CTTCTCTC	TTCTTTAT	
	CATCCCC		
GAM356	LOC221830 3' TATTTCTTTCTTCTTC 3567	—	
	GAAGAGAGAAA	GAGAATA	
	CTTCTTTCTT	CTTTAT	
	T		
GAM356	LOC222166 3' ATTTTACCTTCTCTCTT 3635	AG_	
	GAAGAGAGAA	AGAAT	
	TTTCTCTCTT	TTTTA	
	CCA		
GAM356	LOC254440 3' TTCTCTCCTTCTCTCTC 3729	—	
	GAAGAGAGAA	AGAGAA	
	CTTCTCTCTT	TCTCTT	
	CC		
GAM356	LOC51123 3' ATTTTATGCTGTTCCCTCTT 2571	A AG A	
	AAGAG GAA	AG ATAAAAAT	
	TTCTC CTT	TC TATTTTA	
	C G_G		
GAM356	LOC51596 5' TATTTCCAAGTTCTCTCTC 1651	A	—
	GA GAGAGAAA	GAGAATA	
	CT CTCTCTTT	CTTTAT	
	GAAC		
GAM356	LOC84570 5' TTTCGTTTCCCTCTCTCTC 2257	AA	TA
	GAAGAGAGA	GAGAA AAA	
	CTTCTCTCT	CTTTT TTT	
	C_G	GC	
GAM356	LOC92710 5' TATTTTATGCCTCTGTCTC 2885	A	A_
	GAGA AGAG	ATAAAAATA	
	CTCT TCTC	TATTTTTAT	
	G CG		
GAM357	FANCF 3' GTCCCTTAAAGCATTGA 1997	ATATAT	
	TCAATGTTTAAA	GGAC	
	AGTTACGAAATT	CCTG	
	C_____		
GAM357	GPR65 5' TCCACCCTTAAAGCATTGA 2544	A	TATA
	TCAATGTTT AAA	TGGA	

AGTTACGAAA TTT ACCT
A CCC_

GAM357 LMNB1 3' TGTCATACACTTGGCA 1226 TT ATA
TGT TAAA TATGGACA
||| |||||
ACG GTTT ATACCTGT
TT CAC

GAM357 MEN1 5' CATAATATTTAAACATT 3600 —
AATGTTTAAATAT ATG
||||||| |||||
TTACAAAATTTATA TAC
A

GAM357 PLAG1 3' TGTCATACACCAGATTTAAAA 944 A_____
TATT AATGTTTAA TATATGGACA
||||||| |||||
TTATAAAATT ATATACCTGT
AGACC

GAM357 S100A11 3' TGTCACTTTTAAACATGA 1231 A TATATG
TCA TGTTTAAAA GACA
||| ||||| |||||
AGT ACAAAATTT CTGT
— TTCA_

GAM357 SLC9A6 3' TCCAGTTAGAACATTGA 1290 AATATA
TCAATGTTTAA TGGA
||||||| |||||
AGTTACAAGATT ACCT
G_____

GAM357 SOD2 3' TCCATATACTTGGGACTTG 766 T TA _
CAA GTTT AAA TATATGGA
||| ||||| |||||
GTT CAGG TTT ATATACCT
— GG C

GAM357 BIRC2 5' TATATTTTAAACATTGA 2784 T
TCAATGTTTAAAA ATATG
||||||| |||||
AGTTACAAAATTT TATAT

GAM357 CXorf1 5' TGTCCATAGAAAAAATATT 1145 AAAATA
AATGTTT TATGGACA
||||||| |||||
TTATAAAA ATACCTGT
AAG_

GAM357 KIAA0367 3' TGTCCCACAATGCCTAAACAT 2787 AAATATAT_
TGA TCAATGTTTA GGACA
||||||| |||||
AGTTACAAAAT CCTGT
CCGTAACAC

GAM357 KIAA1321 3' TCCTTGAGCTTAAAGCATTGA 2627 ATATAT
TCAATGTTTAA GGA
||||||| |||||

AGTTACGAAATT CCT
CGAGTT

GAM357 KIAA1718 3' TGTATTTAAAATATTGA 2686
TCAATGTTTAAAATATA
|||||||
AGTTATAAAATTTATGT

GAM357 KIAA1789 5' TGTCCCTGCCCTAGAACATTG 2781 AAAATATAT
A TCAATGTTT GGACA
||||||| |||||
AGTTACAAAG CCTGT
ATCCCGTC_

GAM357 PRO2964 3' CAAGTATTTAAAACACTG 1842 A A
CA TGTTTAAAATATTG
|| ||||| |||
GT ACAAAATTTATG AC
C A

GAM357 SLC17A6 3' TGTCCATACACAGAACAT 1912 AAAATA
ATGTTT TATGGACA
||||||| |||||
TACAAAG ATACCTGT
ACAC_

GAM357 TRAF3 5' CATTATTTAAAACGTTGA 2542 T_
TCAATGTTTAAAATA ATG
||||||| |||
AGTTGCAAAATTTAT TAC
TT

GAM357 LOC151361 3' TGTCTGTGTTTTAAAAC 3344 T
GTTTAAAA ATATGGACA
||||||| |||||
CAAAATTT TGTGTCTGT

GAM357 LOC158714 3' TCCACACATTAAAACATTGA 3224 ATATA
TCAATGTTTAAA TGGA
||||||| |||||
AGTTACAAATTT ACCT
ACAC_

GAM357 LOC219667 3' TATACCTAGAACATTGA 3518 AA
TCAATGTTTAA TATA
||||||| |||||
AGTTACAAGATT ATAT
CC

GAM357 LOC91565 3' TCCATTTAAAACATT 2749 ATAT
AATGTTTAAA ATGGA
||||||| |||||
TTACAAATTT TACCT

GAM358 EHF 3' ATATTGTAGAAGGAAACACCAA 1411 T GGA
TTGGT GT TCTTCTACAATAT
||||||| |||||

		AACCA CA GGAAGATGTTATA	
		_ AA_	
GAM358	C9orf5	3' ATATTGCAAAAAACTACAGCTA 2225	ATCTTCTA
	A	TTGGTTGTGG CAATAT	
		AATCGACATC GTTATA	
		AAAAAAC_	
GAM358	KIAA1546	3' TTGAAAAGACCACAACCAA 2805	A CTA
		TTGGTTGTGG TCTT CAA	
		AACCAACACC AGAA GTT	
		_ AA_	
GAM358	LOC253263	3' TGAGAAAAACCCACAACCAA 3724	ATC_ A
		TTGGTTGTGG TTCT CA	
		AATCAACACC AAGA GT	
		CAAA _	
GAM359	BRCA1	3' GCCATGAGCACAAATTATGGT 1380	AGGGTA
	A	TATCATAA TGCTCATGGC	
		ATGGTATT ACGAGTACCG	
		AAAAC_	
GAM359	BRCA1	3' GCCATGAGCACAAATTATGGT 1381	AGGGTA
	A	TATCATAA TGCTCATGGC	
		ATGGTATT ACGAGTACCG	
		AAAAC_	
GAM359	BRCA1	3' GCCATGAGCACAAATTATGGT 1382	AGGGTA
	A	TATCATAA TGCTCATGGC	
		ATGGTATT ACGAGTACCG	
		AAAAC_	
GAM359	BRCA1	3' GCCATGAGCACAAATTATGGT 1383	AGGGTA
	A	TATCATAA TGCTCATGGC	
		ATGGTATT ACGAGTACCG	
		AAAAC_	
GAM359	BRCA1	3' GCCATGAGCACAAATTATGGT 1384	AGGGTA
	A	TATCATAA TGCTCATGGC	
		ATGGTATT ACGAGTACCG	
		AAAAC_	
GAM359	BRCA1	3' GCCATGAGCACAAATTATGGT 1385	AGGGTA
	A	TATCATAA TGCTCATGGC	
		ATGGTATT ACGAGTACCG	
		AAAAC_	
GAM359	BRCA1	3' GCCATGAGCACAAATTATGGT 1386	AGGGTA
	A	TATCATAA TGCTCATGGC	

		ATGGTATT	ACGAGTACCG	
		AAAAC_		
GAM359	BRCA1	3' GCCATGAGCACAAATTATGGT 1387		AGGGTA
	A	TATCATAA	TGCTCATGGC	
		ATGGTATT	ACGAGTACCG	
		AAAAC_		
GAM359	BRCA1	3' GCCATGAGCACAAATTATGGT 1388		AGGGTA
	A	TATCATAA	TGCTCATGGC	
		ATGGTATT	ACGAGTACCG	
		AAAAC_		
GAM359	BRCA1	3' GCCATGAGCACAAATTATGGT 1389		AGGGTA
	A	TATCATAA	TGCTCATGGC	
		ATGGTATT	ACGAGTACCG	
		AAAAC_		
GAM359	BRCA1	3' GCCATGAGCACAAATTATGGT 1391		AGGGTA
	A	TATCATAA	TGCTCATGGC	
		ATGGTATT	ACGAGTACCG	
		AAAAC_		
GAM359	PPP1CB	3' GCCATTGACACCCTTATGAT 949		ATGCTC
	G	TATCATAAAGGGT	ATGGC	
		GTAGTATTCCCA	TACCG	
		CAGTT_		
GAM359	TRPS1	3' CATGCACACCCTCTTGATA 1470	TAA A TC	
		TATCA AGGGT TGC ATG		
		ATAGT TCCCA ACG TAC		
		CTC C _		
GAM359	FLJ23323	3' GCCATGAATGGTGCCCTT 2077	GC_	
		AAGGGTAT TCATGGC		
		TTCCCGTG AGTACCG		
		GTA		
GAM359	KIAA0057	3' CCACAAGCATACCTATTAAGA 1421	A A CA	
		TC TAA GGGTATGCT TGG		
		AG ATT TCCATACGA ACC		
		A A AC		
GAM359	LOC145439	5' GCCATGAGCTGCATCTTAT 3079	_ T	
		ATAAAGG GTA GCTCATGGC		
		TATTTCT CGT CGAGTACCG		
		A _		
GAM360	DKFZP434G1411	3' TAGGTTGATACATGTATCA 3554	AA	
		TGATACATGTATTAA TA		

ACTATGTACATAGTT AT
GG
GAM360 DKFZP564I052 3' GAAAGTATTCCCTATCATGTAT 2760 T TAA
ATACATG AT AATACTTTC
|||||| |||||||||
TATGTAC TA TTATGAAAG
_ TCC
GAM360 KLHL8 3' AAAGTATTGTTACATAATCA 2639 AC TTA
TGAT ATGTA AAATACTTT
||| ||||| |||||||||
ACTA TACAT TTTATGAAA
A_ TG_
GAM360 XLKD1 3' AAAGTGCCATTAACAAATGTAT 1323 GTA AA_
CA TGATACAT TTAA TACTTT
|||||| ||||| |||||
ACTATGTA AATT GTGAAA
AAC ACC
GAM360 LOC51003 3' GAGGCACCTTAATACATGTAT 1658 AATA
ATACATGTATTAA CTT
||||||||| |||
TATGTACATAATT GAG
CACG
GAM361 GCNT2 5' TCTCGGGATGAAACGGAATCGA 831 _____ A
TCGATTCCGT CC AGA
||||||| |||||
AGCTAAGGCA GG TCT
AAGTAG C
GAM361 BLP1 3' TTACCTTGCAGACGGAATGA 2222 G _ A
TC ATTCCGTC CAAG TGA
|| ||||| |||||
AG TAAGGCAG GTTC ATT
_ AC C
GAM361 BLP1 3' TTACCTTGCAGACGGAATGA 2371 G _ A
TC ATTCCGTC CAAG TGA
|| ||||| |||||
AG TAAGGCAG GTTC ATT
_ AC C
GAM361 LOC143914 5' TCACTCAAACGGAATCGA 3062 CCA A
TCGATTCCGT AG TGA
||||||| |||||
AGCTAAGGCA TC ACT
AAC _
GAM361 LOC253891 5' CACTGGGACGGAATCGG 3654 A A
TCGATTCCGTCC AG TG
||||||| |||||
GGCTAAGGCAGG TC AC
G _
GAM362 ADSS 3' GAAACAAATGATGAAAACAT 2925 CCTGTT
ATGT TCATTTGTTTC
||| |||||||||

		TACA	AGTAAACAAAG		
		AAAGT_			
GAM362	CASP6	3' GAAACAAAATCCTCAGGAAATT	2305	G	TTTCA
	A	TAAT TCCTG	TTTGTTTC		
		ATTA AGGAC	AAACAAAG		
		A TCCTA			
GAM362	CASP6	3' GAAACAAAATCCTCAGGAAATT	810	G	TTTCA
	A	TAAT TCCTG	TTTGTTTC		
		ATTA AGGAC	AAACAAAG		
		A TCCTA			
GAM362	CKTSF1B1	3' AAGTGGATAAACAGAACATT	1445	C	C TG
		AATGT CTGTTT ATT TTT			
		TTACA GACAAA TAG GAA			
		A _ GT			
GAM362	F2R	3' AAACAATGCAGTACAGGACAT	879		TTCAT_
		ATGTCCTGT	TTGTTT		
		TACAGGACA	AACAAA		
		TGACGT			
GAM362	GPRK7	3' GGAAACAAATGTTCTGACATT	2476		CTGTTT
		AATGTC	CATTTGTTCC		
		TTACAG	GTAAACAAAGG		
		TCTTT_			
GAM362	NLGN1	3' AAACAAATGAGATGGAC	1591	T	
		GTCC GTTTCATTGTTT			
		CAGG TAGAGTAAACAAA			
GAM362	APC10	5' GGAAACTGTAACAGGACATT	1574	T	TTT
		AATGTCCTGTT CA	GTTTCC		
		TTACAGGACAA GT	CAAAGG		
		T _			
GAM362	C20orf139	3' GGAACAAAAACAGGACATTA	3319	CAT	
		TAATGTCCTGTTT TTGTTTC			
		ATTACAGGACAAA AACAGG			
GAM362	FLJ11186	3' GAAGCCCCGAAACAAGACATTA	1818	C	ATTT
		TAATGTC TGTTTC	GTTTC		
		ATTACAG ACAAG CGAAG			
		A CC_			
GAM362	FLJ22116	5' GGAATTGCGGAAAACAGGAC	2073	CA	_
		GTCCTGTTT TTTGT TTCC			

CAGGACAAA AGGCG AAGG
 — TT
GAM362 FLJ32978 3' AAACAAATGAAATCAACA 2487 CCT
 TGT GTTCATTGTTT
 ||| |||||||||
 ACA TAAAGTAAACAAA
 AC_

GAM362 KIAA1164 3' GGAAACAAAAACAAAACAAAAC 2862 CC CA_
 GT TGTTT TTTGTTCC
 ||| ||||| |||||
 CA ACAAA AACAAAGG
 AA ACA

GAM362 KIAA1762 3' AAAGAGAGAACGGACA 2668 T A G
 TGTCC GTTTC TTT TTT
 ||||| ||||| |||||
 ACAGG CAAAG AGA AAA
 — — G

GAM362 KIAA1918 5' GAAAGGAGACAGAACATTA 2969 C ATTTG
 TAATGT CTGTTTC TTTC
 ||||| ||||| |||||
 ATTACA GACAGAG AAAG
 A G_

GAM362 POPX1 3' GGAAACAAACTTCAGGTCA 1583 T TTTCA
 TG CCTG TTTGTTCC
 ||| ||||| |||||
 AC GGAC AACAAAGG
 T TTC_

GAM362 PRO0800 3' AAACAAAGAGACAGGAATTA 1852 G A
 TAAT TCCTGTTTC TTTGTTT
 ||||| ||||| |||||
 ATTA AGGACAGAG AAACAAA

GAM362 LOC142779 3' GGAGTAACAAAATAGGACATTA 3050 CATT —
 TAATGTCCTGTTT TGTT TCC
 ||||||| |||| |||||
 ATTACAGGATAAA ACAAA AGG
 — — TG

GAM362 LOC143274 5' GGAAACAAACAAAAGGA 3053 G CA
 TCCT TTT TTTGTTCC
 ||| |||||
 AGGA AAA AACAAAGG
 — AC

GAM362 LOC154089 3' AAACAAATACTGAGACAG 3186 —
 CTGTTCA TTTGTTT
 ||||| |||||
 GACAGAGT AAACAAA
 CAT

GAM362 LOC169679 3' AGCATATGAAGACAGGACAT 3404 — T
 ATGTCCTGTTT CAT TGTT
 ||||||| |||| |||||

TACAGGACAGA GTA ACGA
A T

GAM362 LOC202052 5' GAAACAAATACCCAGAACAGA 3484 — TTTC
TGTC CTG ATTTGTTTC
||| ||| |||||
ACAG GAC TAAACAAAG
AA CCA_

GAM362 LOC256021 3' GAAACGAGAACATGACATTA 3708 C_ CAT
TAATGTC TGTTT TTGTTTC
||||| ||||| |||||
ATTACAG ACAAG AGCAAAG
TA —

GAM362 LOC91650 5' AAACAAAACATCTCAGGACAT 2765 TTTCA_
ATGTCCTG TTTGTTT
||||| |||||
TACAGGAC AACAAA
TCTACA

GAM362 LOC91752 5' AAGTCAAATAAACAGGACA 2777 C —
TGTCCTGTTT ATTTG TTT
||||||| |||||
ACAGGACAAA TAAAC GAA
A T

GAM363 ARCN1 3' CCCATTTCCCTCCAGTCA 844 GAAGT CA
TGATTGGA AGGAAA GG
||||| ||||| ||
ACTGACCT TCCTTT CC
— AC

GAM363 CTSK 3' TCCTACTTTGCTTCTCCACC 736 AT —
CA TG TGGAGA AGTAGGA
|| ||||| |||||
AC ACCTCT TCATCCT
CC CTTCGTT

GAM363 HMG20A 3' TCCTATTTCCCTGCCATCA 1800 T__ A
TGAT GG GAAGTAGGA
||| || |||||
ACTA CC CTTTATCCT
CCGT _

GAM363 PRDM2 3' TCCTGTTCCCACCCAG 1415 AGAA A
TTGG GT GGAAACAGGA
||| || |||||
GACC CA CCTTGTCCT
— C

GAM363 RNMT 3' CCTGCCTATCCTCTCCGATCA 1060 A_ AAA
TGATTGGAGA GTAGG CAGG
||||||| ||||| |||
ACTAGCCTCT TATCC GTCC
CC —

GAM363 SCAP1 3' TCCCACCTCCCTACTTCTGCCA 1052 — AAACA
TGG AGAAGTAGG GGA
||| ||||| |||

ACC TCTTCATCC CCT
 G CTCAC
 GAM363 USH3A 5' CCTATTTATTTCTCCATCA 2355 T AAC
 TGAT GGAGAAGTAGGA AGG
 ||||| ||||| |||
 ACTA CCTCTTATT TCC
 - A_

GAM363 VAT1 3' TCCTGTTCCCACCTCCTCTC 1292 TA_____
 C GGAGAAG GGAAACAGGA
 ||||| |||||
 CCTCTTC CCTTTGTCC
 CTCCAC

GAM363 AIF1 5' CCTGCTGAAAACCCTCCAGTCA 2297 A_____
 TGATTGGAG AGTAGG
 ||||| |||||
 ACTGACCTC TCGTCC
 CCAAAAG

GAM363 CPLX1 3' CCTGTTCTCCTCCATTCA 1317 T AAGTA
 TGA TGGAG GGAAACAGG
 ||| ||||| |||||
 ACT ACCTC TCTTGTC
 T C_

GAM363 CXorf1 3' CCTGTTCCCCACCTCCGGCTC 3228 _ A A A A
 GA TTGG GA GT GG AACAGG
 || |||| || |||||
 CT GGCC CT CA CC TTGTCC
 C _ C C C

GAM363 FLJ12221 3' CCCACCCTTGCTCTCCAATTA 2637 A AAACA
 TGATTGGAGA GTAGG GG
 ||||| ||||| |||
 ATTAACCTCT CGTTC CC
 - CCAC_

GAM363 FLJ20207 3' CCTGCCCTGCTTCCCCACCCA 1741 AT A AAA
 TG TGG GAAGTAGG CAGG
 ||| ||||| |||||
 AC ACC CTTCGTCC GTCC
 CC C C_

GAM363 FLJ22215 3' CCTGCCCCCTACCCCTGTTCTCC 3715 _____ AAA
 GGAGAA GTAGG CAGG
 ||||| ||||| |||||
 CCTCTT CATCC GTCC
 GTCC CCC

GAM363 FLJ31547 3' TCCCATAATTCTCCCGCAATC 2511 _____ A_____
 A TGATT GGAGAAGT GGA
 ||||| ||||| |||
 ACTAA CCTCTTTA CCT
 CGC ATAC

GAM363 HSCBCIP1 3' TCCTACCTATGTCTTCTCCAAT 3449 _____ AAAC
 ATTGGAGAAG TAGG AGGA
 ||||| ||||| |||||

TAACCTCTTC ATCC TCCT
 TGT A_

GAM363 KIAA0515 5' TCCTACCAGAACTCCTCCGATC 2670 A A_ AAAC
 A TGATTGGAG AGT GG AGGA
 ||||| || |||||
 ACTAGCCTC TCA CC TCCT
 C AGA A_

GAM363 KIAA1514 3' CCTGCTCAACTTCTCCA 1877 A AAA
 TGGAGAAGT GG CAGG
 ||||| || |||||
 ACCTCTTCA CT GTCC
 A C_

GAM363 KIAA1553 3' TCCTCACTTCTCCATCCA 3544 AT _
 TG TGGAGAAGT AGGA
 || |||||||||
 AC ACCTCTTCA TCCT
 CT C

GAM363 KIAA1656 3' CCCACTTCCCTCCAGTCA 2730 _ A
 TGATTGGA GAAGT GG
 ||||| ||||| ||
 ACTGACCT CTTCA CC
 TC C

GAM363 KIAA1877 3' CCTACCTTATTCTCCAGCCA 2741 AT AAAC
 TG TGGAGAAGTAGG AGG
 || ||||||||| |||
 AC ACCTCTTATTTC TCC
 CG CA_

GAM363 MTCH1 3' CCCGTCTACCCCTCCAGTCA 1493 AA AAACA
 TGATTGGAG GTAGG GG
 ||||| ||||| ||
 ACTGACCTC CATCT CC
 CC GC_

GAM363 N-PAC 3' CCGCCCTCACCCCTCCAATC 2902 AA _ AAACA
 GATTGGAG GT AGG GG
 ||||| || ||||| ||
 CTAACCTC CA TCC CC
 CC C CG_

GAM363 SEMA4B 5' CCTGTTCCCACCTCC 2839 AA A
 GGAG GT GGAAACAGG
 ||||| |||||
 CCTC CA CCTTGTC
 _ C

GAM363 SPRY1 3' CCTGTTCCCACCTCT 2709 TA_
 GGAGAAG GGAAACAGG
 ||||| |||||||
 TCTCTTC CCTTGTC
 CAC

GAM363 WS-3 5' CCTGCCAGGCTCTCCAATC 1312 A A_ AAA
 GATTGGAGA GT GG CAGG
 ||||| || |||||

CTAACCTCT CG CC GTCC
 GA
GAM363 LOC123242 5' TCTGTACCTTCTCCATCCA 3030 AT TAGGAA
 TG TGGAGAAG ACAGG
 || ||||| |||||
 AC ACCTCTTC TGTCT
 CT CA
GAM363 LOC127702 3' CCTGCCACAACTTCTCCAAAC 3024 A A__ AAA
 A TG TTGGAGAAGT GG CAGG
 || ||||| || |||||
 AC AACCTCTTCA CC GTCC
 A ACA C
GAM363 LOC146745 5' TCCTGCCACCATTCTCCAACC 3099 A A AAA
 A TG TTGGAGAAGT GG CAGGA
 || ||||| || |||||
 AC AACCTCTTA CC GTCCT
 C _ ACC
GAM363 LOC147791 3' CCCATTCCCTAACCTCCAATC 3294 AAG A CA
 GATTGGAG TAGG AA GG
 ||||| ||||| |||||
 CTAACCTC ATCC TT CC
 CA_ C AC
GAM363 LOC196892 3' TCCTGGTATTCTTCTCCAATC 3417 TAGGAAA
 A TGATTGGAGAAG CAGGA
 ||||| |||||
 ACTAACCTCTTC GTCCT
 TTAGTG_
GAM363 LOC200093 3' CCTGTTCCCCCACCTCCCGGCTC 2648 _ A A A A
 GA TTGG GA GT GG AACAGG
 || ||| || |||||
 CT GGCC CT CA CC TTGTCC
 C _ C C C
GAM363 LOC201243 5' TCCTGCCACCATTCTCCAACC 3426 A A AAA
 A TG TTGGAGAAGT GG CAGGA
 || ||||| || |||||
 AC AACCTCTTA CC GTCCT
 C _ ACC
GAM363 LOC219404 3' CCTGCTCCCTACTTCCCTGGCA 3606 A TG A AAA
 TG T G GAAGTAGG CAGG
 || | ||||| |||||
 AC G C CTTCATCC GTCC
 GT CTC
GAM363 LOC222066 3' TCCTGCAAACCACCTTCTCCAA 3574 TA AAA_
 TCA TGATTGGAGAAG GG CAGGA
 ||||| || |||||
 ACTAACCTCTTC CC GTCCT
 CA AAAC
GAM363 LOC253001 5' TCTGTACCTTCTCCATCCA 3698 AT TAGGAA
 TG TGGAGAAG ACAGG
 || ||||| |||||

AC ACCTCTTC TGTCT
CT CA
GAM363 LOC91040 3' CCTGTTCCCCCACCTCCGGCTC 2700 _ A A A A
GA TTGG GA GT GG AACAGG
|| |||| || || |||||
CT GGCC CT CA CC TTGTCC
C _ C C C